

## Index of Authors and Titles

- ANDERSON, M. J., CHOY, C. Y. and WAXMAN, S. G. Selforganization of ependyma in regenerating teleost spinal cord: evidence from serial section reconstructions 96, 1
- ANDERTON, B. H. See GODSAVE, S. F.
- ATSUCHI, Y., TASHIRO, K., YAMANA, K. and SHIOKAWA, K. Level of histone H4 mRNA in *Xenopus laevis* embryonic cells cultured in the absence of cell adhesion 98, 175
- BARALLE, F. E. See HOPKINS, B.
- BARBOSA, E. See REPRESA, J. J.
- BARCELLONA, P. S. See FRANCAVILLA, S.
- BARTON, S. C. See SURANI, M. A. H.
- BATES, W. R. See JEFFERY, W. R.
- BEACH, R. L. See JEFFERY, W. R.
- BECHTOL, K. B., HO, W. C. and VAUPEL, S. Biochemical characterization of the adhesion-related differentiation antigen XT-1 93, 197
- BELL, H. See VAN BLERKOM, J.
- BELL, K. M. The preliminary characterization of mitogens secreted by embryonic chick wing bud tissues *in vitro* 93, 257
- BELLAIRS, R. See OOI, V. E. C.
- BOOKSTEIN, F. L. See BRINKLEY, L. L.
- BRINKLEY, L. L. and BOOKSTEIN, F. L. Cell distribution during mouse secondary palate closure. II. Mesenchymal cells 96, 111
- BRINSTER, R. L. See HAMMER, R. E.
- BRONNER-FRASER, M. See GUILLORY, G.
- BROWN, C. R. and CHENG, W. K. T. Changes in composition of the porcine zona pellucida during development of the oocyte to the 2- to 4-cell embryo 92, 183
- BRUNO, B. See FRANCAVILLA, S.
- BRYANT, S. V. See MUNEOKA, K.
- BULLEIT, F. F. and ZIMMERMAN, E. F. The effect of reducing ATP levels on reorientation of the secondary palate 93, 73
- BUNT, S. M. See SCOTT, T. M.
- BURRIDGE, K. See SADLER, T. W.
- BURTENSHAW, M. D. See LYON, M. F.
- BURTON, R., HOLDER, N. and JESANI, P. The regeneration of double dorsal and double ventral limbs in the axolotl 94, 29
- BUTLER, J., CAUWENBERGS, P. and COSMOS, E. Fate of brachial muscles of the chick embryo innervated by inappropriate nerves: structural, functional and histochemical analyses 95, 147
- CAMPER, S. See HAMMER, R. E.
- CAREY, F. See LHEUREUX, E.
- CATTANACH, B. M. Parental origin effects in mice 97 Supplement, 137
- CAUWENBERGS, P. See BUTLER, J.
- CHAN, W. Y. and TAM, P. P. L. The histogenetic potential of neural plate cells of early-somite-stage mouse embryos 96, 183
- CHENG, L. Y. See JACOBSON, A. G.
- CHENG, W. K. T. See BROWN, C. R.
- CHISHOLM, J. C. See JOHNSON, M. H.
- CHOY, C. Y. See ANDERSON, M. J.
- CLEINE, J. H. Replacement of posterior by anterior endoderm reduces sterility in embryos from inverted eggs of *Xenopus laevis* 94, 83
- COHEN, J. See HOGAN, B. L. M.

- COLENBRANDER, B. See VAN VORSTENBOSCH, C. J. A. H. V.
- COLMAN, A. and DRUMMOND, D. The stability and movement of mRNA in *Xenopus* oocytes and embryos 97 Supplement, 197
- COOPER, P. See WEBSTER, E. H.
- COPP, A. J., ROBERTS, H. M. and POLANI, P. E. Chimaerism of primordial germ cells in the early postimplantation mouse embryo following microsurgical grafting of posterior primitive streak cells *in vitro* 95, 95
- COSMOS, E. See BUTLER, J.
- COTTRILL, C. P., SHARPE, P. T. and WOLPERT, L. The application of aqueous two-phase partition to the study of chick limb mesenchymal diversification 94, 267
- CROSBY, I. M. See MOOR, R. M.
- CROSBY, I. M. See OSBORN, J. C.
- CUNY, R. and MALACINSKI, G. M. Axolotl retina and lens development: mutual tissue stimulation and autonomous failure in the eyeless mutant retina 96, 151
- DAN-SOHWAKA, M., YAMANAKA, H. and WATANABE, K. Reconstruction of bipinnaria larvae from dissociated embryonic cells of the starfish, *Asterina pectinifera* 94, 47
- DAN-SOHWAKA, M. See YAMANAKA, H.
- DAVEY, D. F. See FREEMAN, J. M.
- DAVID, J. C. See SIGNORET, J.
- DAWES, E. A. See KEATING, M. J.
- DE MARTINO, C. See FRANCAVILLA, S.
- DE PETROCELLIS, B. See DE PETROCELLIS, L.
- DE PETROCELLIS, L., MAHARAJAN, V., DE PETROCELLIS, B. and MINEI, R. Bud induction in decapitated *Hydra attenuata* by 5-azacytidine: a morphological study 93, 105
- DEBROT, S. and EPSTEIN, C. J. Tetrasomy 16 in the mouse: a more severe condition than the corresponding trisomy 91, 169
- DEES, C. See SANYAL, S.
- DEOL, M. S., TRUSLOVE, G. M. and McLAREN, A. Genetic activity at the albino locus in Cattanach's insertion in the mouse 96, 295
- DESMOND, M. E. and SCHOENWOLF, G. C. Evaluation of the roles of intrinsic and extrinsic factors in occlusion of the spinal neurocoel during rapid brain enlargement in the chick embryo 97, 25
- DESMOND, M. E. See GOLDSTEIN, C. D.
- DIWAN, F. H. and MILBURN, A. The effects of temporary ischaemia on rat muscle spindles 92, 223
- DOMINOV, J. A. and TOWN, C. D. Regulation of stalk and spore antigen expression in monolayer cultures of *Dictyostelium discoideum* by pH 96, 131
- DRUMMOND, D. See COLMAN, A.
- DUDLEY, K. See WILLISON, K.
- DWORKIN, M. B. See DWORKIN-RASTL, E.
- DWORKIN-RASTL, E., KELLEY, D. B. and DWORKIN, M. B. Localization of specific mRNA sequences in *Xenopus laevis* embryos by *in situ* hybridization 91, 153
- EAGLESON, G. W., JENKS, B. G. and VAN OVERBEEKE, A. P. The pituitary adrenocorticotropes originate from neural ridge tissue in *Xenopus laevis* 95, 1
- EGLITIS, M. A. See SHERMAN, M. I.
- EGUCHI, G. See HONDA, H.
- ELBETIEHA, A. See KALTHOFF, K.
- ENGSTRÖM, W. See HYLDAHL, L.
- EPP, L. G. See FROST, S. K.
- EPSTEIN, C. J. See DEBROT, S.
- ERICKSON, C. A. See MARTINS-GREEN, M.
- ERICKSON, C. A. See TUCKER, R. P.
- EVANS, E. P. See LYON, M. F.
- EYAL-GILADI, H. See GINSBURG, M.
- FAIRMAN, S. See GURDON, J. B.

- FISHER, G. *See* HOGAN, B. L. M.
- FLACH, G. *See* MARO, B.
- FLEMING, T. P., PICKERING, S. J., QASIM, F. and MARO, B. The generation of cell surface polarity in mouse 8-cell blastomeres: the role of cortical microfilaments analysed using cytochalasin D 95, 169
- FLEMING, T. P. *See* JOHNSON, M. H.
- FRANCAVILLA, S., MOSCARDELLI, S., BRUNO, B., BARCELLONA, P. S. and DE MARTINO, C. The postnatal maturation of efferent tubules in the rat: a light and electron microscopy study 96, 51
- FRASER, S. E. and HUNT, R. K. A physiological measure of shifting connections in the *Rana pipiens* retinotectal system 94, 149
- FREEMAN, J. M. and DAVEY, D. F. The precision of pathway selection by developing peripheral axons in the axolotl 91, 117
- FRENCH, V. Interaction between the leg and surrounding thorax in the beetle 91, 227
- FRENCH, V. and ROWLANDS, T. F. Regeneration in the anterior-posterior axis of the insect thoracic segment 98, 137
- FRENCH, V. *See* MEE, J. E.
- FROHNHÖFER, H. G., LEHMANN, R. and NÜSSLEIN-VOLHARD, C. Manipulating the anteroposterior pattern of the *Drosophila* embryo 97 Supplement, 169
- FROST, S. K., EPP, L. G. and ROBINSON, S. J. The pigmentary system of developing axolotls. III. An analysis of the albino phenotype 92, 255
- FROST, S. K., EPP, L. G. and ROBINSON, S. J. The pigmentary system of developing axolotls. IV. An analysis of the axanthic phenotype 95, 117
- FUKUZAWA, T. and IDF, H. Further studies on the melanophores of periodic albino mutant of *Xenopus laevis* 91, 65
- GALLAGHER, B. C. Basal laminar thinning in branching morphogenesis of the chick lung as demonstrated by lectin probes 94, 173
- GALLAGHER, B. C. Branching morphogenesis in the avian lung: electron microscopic studies using cationic dyes 94, 189
- GAÑAN, Y. *See* HURLE, J. M.
- GARBER, C. *See* STEWART, C. L.
- GAUTIER, J. and TENCER, R. Changes in patterns of protein synthesis in axolotl oocytes during progesterone-induced maturation 92, 103
- GAZE, R. M. *See* WILLSHAW, D. J.
- GINSBURG, M. and EYAL-GILADI, H. Temporal and spatial aspects of the gradual migration of primordial germ cells from the epiblast into the germinal crescent in the avian embryo 95, 53
- GIRALDEZ, F. *See* REPRESA, J. J.
- GODSAVE, S. F., ANDERTON, B. H. and WYLIE, C. C. The appearance and distribution of intermediate filament proteins during differentiation of the central nervous system, skin and notochord of *Xenopus laevis* 97, 201
- GOEBELS, J. *See* SOBIS, H.
- GOLDSTEIN, C. D., JANKIEWICZ, J. J. and DESMOND, M. E. Identification of glycosaminoglycans in the chondrocranium of the chick embryo before and at the onset of chondrogenesis 93, 29
- GOLINSKA, K. Modifications of size and pattern of microtubular organelles in overfed cells of a ciliate *Dileptus* 93, 85
- GOODALL, H. Manipulation of gap junctional communication during compaction of the mouse early embryo 91, 283
- GOODALL, H. *See* LEVY, J. B.
- GRAHAM, C. F. *See* HOPKINS, B.
- GRANT, S. and KEATING, M. J. Ocular migration and the metamorphic and postmetamorphic maturation of the retinotectal system in *Xenopus laevis*: an autoradiographic and morphometric study 92, 43
- GRANT, S. *See* KEATING, M. J.
- GREEN, J. F. *See* WEST, J. D.
- GUILLORY, G. and BRONNER-FRASER, M. An *in vitro* assay for neural crest cell migration through the somites 98, 85

- GULATI, A. K. Pattern of skeletal muscle regeneration after reautotransplantation of regenerated muscle 92, 1
- GURDON, J. B. and FAIRMAN, S. Muscle gene activation by induction and the nonrequirement for cell division 97 Supplement, 75
- GUTZEIT, H. O. and HUEBNER, E. Comparison of microfilament patterns in nurse cells of different insects with polytrophic and telotrophic ovarioles 93, 291
- HAFFNER, R. See WILLISON, K.
- HALL, B. K. The role of movement and tissue interactions in the development and growth of bone and secondary cartilage in the clavicle of the embryonic chick 93, 133
- HAMMER, R. E., KRUMLAUF, R., CAMPER, S., BRINSTER, R. L. and TILGHMAN, S. M. The regulation of  $\alpha$ -foetoprotein minigene expression in the germline of mice 97 Supplement, 257
- HARRIS, M. J. and JURLOFF, D. M. Eyelid development and fusion induced by cortisone treatment in mutant, lidgap-Miller, foetal mice. A scanning electron microscope study 91, 1
- HAYAKAWA, T. See NAKANISHI, Y.
- HEASMAN, J., SNAPE, A., SMITH, J. C. and WYLIE, C. C. The nature of developmental restrictions in *Xenopus laevis* embryos 97 Supplement, 65
- HEATH, J. K. and SHI, W.-K. Developmentally regulated expression of insulin-like growth factors by differentiated murine teratocarcinomas and extraembryonic mesoderm 95, 193
- HETHERINGTON, C. M. See HOGAN, B. L. M.
- HISCOCK, J. and STRAZNICKY, C. The formation of axonal projections of the mesencephalic trigeminal neurones in chick embryos 93, 281
- HO, W. C. See BECHTOL, K. B.
- HOGAN, B. L. M., HORSBURGH, G., COHEN, J., HETHERINGTON, C. M., FISHER, G. and LYON, M. F. *Small eyes* (Sey): a homozygous lethal mutation on chromosome 2 which affects the differentiation of both lens and nasal placodes in the mouse 97, 95
- HOLDER, N. See BURTON, R.
- HOLDER, N. See WIGMORE, P.
- HOLLER-DINSMORE, G. V. See MUNEOKA, K.
- HONDA, H., YAMANAKA, H. and EGUCHI, G. Transformation of a polygonal cellular pattern during sexual maturation of the avian oviduct epithelium: computer simulation 98, 1
- HOPKINS, B., SHARPE, C. R., BARALLE, F. E. and GRAHAM, C. F. Organ distribution of apolipoprotein gene transcripts in 6-12 week postfertilization human embryos 97, 177
- HORNBRUCH, A. and WOLPERT, L. Positional signalling by Hensen's node when grafted to the chick limb bud 94, 257
- HORNE, K. A., JAHODA, C. A. B. and OLIVER, R. F. Whisker growth induced by implantation of cultured vibrissa dermal papilla cells in the adult rat 97, 111
- HORSBURGH, G. See HOGAN, B. L. M.
- HOULISTON, E. See JOHNSON, M. H.
- HOWLETT, S. K. See WEBB, M.
- HUEBNER, E. See GUTZEIT, H. O.
- HURMERINTA, K., KUUSELA, P. and THESLEFF, I. The cellular origin of fibronectin in the basement membrane zone of developing tooth 95, 73
- HUNT, R. K. See FRASER, S. E.
- HURLE, J. M. and GAÑAN, Y. Interdigital tissue chondrogenesis induced by surgical removal of the ectoderm in the embryonic chick leg bud 94, 231
- HYLDAHL, L., ENGSTRÖM, W. and SCHOFIELD, P. N. Stimulatory effects of insulin-like growth factors on DNA synthesis in the human embryonic cornea 98, 71
- IDE, H. See FUKUZAWA, T.
- IHMER, A. See RODEMER, E. S.
- ITEN, L. E. See JAVOIS, L. C.
- JÄCKLE, H., SEIFERT, E., PREISS, A. and ROSENBERG, U. B. Probing gene activity in *Drosophila* embryos 97 Supplement, 157



- JACOBSON, A. G., OSTER, G. F., ODELL, G. M. and CHENG, L. Y. Neurulation and the cortical tractor model for epithelial folding 96, 19
- JAHODA, C. A. B. See HORNE, K. A.
- JANKIEWICZ, J. J. See GOLDSTEIN, C. D.
- JAVOIS, L. C. and ITEN, L. E. The handedness and origin of supernumerary limb structures following 180° rotation of the chick wing bud on its stump 91, 135
- JEFFERY, W. R., BATES, W. R., BEACH, R. L. and TOMLINSON, C. R. Is maternal mRNA a determinant of tissue-specific proteins in ascidian embryos? 97 Supplement, 1
- JENKS, B. G. See EAGLESON, G. W.
- JESANI, P. See BURTON, R.
- JOHNSON, D. R. See O'HIGGINS, P.
- JOHNSON, M. H., CHISHOLM, J. C., FLEMING, T. P. and HOULISTON, E. A role for cytoplasmic determinants in the development of the mouse early embryo? 97 Supplement, 97
- JOHNSON, M. H., MARO, B. and TAKEICHI, M. The role of cell adhesion in the synchronization and orientation of polarization in 8-cell mouse blastomeres 93, 239
- JOHNSON, M. H. See LEVY, J. B.
- JOHNSON, M. H. See MARO, B.
- JOHNSTON, P. See LAWRENCE, P. A.
- JURILOFF, D. M. See HARRIS, M. J.
- KAGEURA, H. and YAMANA, K. Pattern formation in 8-cell composite embryos of *Xenopus laevis* 91, 79
- KALTHOFF, K. and ELBETIEHA, A. Transplantation of localized anterior determinants in *Chironomus* eggs by microinjection 97 Supplement, 181
- KAUFMAN, M. H. See SCHNEBELEN, M. T.
- KAY, E. D. The phenotypic interdependence of the musculoskeletal characters of the mandibular arch in mice 98, 123
- KEATING, M. J., GRANT, S., DAWES, E. A. and NANCHAHAL, K. Visual deprivation and the maturation of the retinotectal projection in *Xenopus laevis* 91, 101
- KEATING, M. J. See GRANT, S.
- KELLEY, D. B. See DWORKIN-RASTL, E.
- KEYNES, R. J. See STERN, C. D.
- KIMBER, S. J. See STERNBERG, J.
- KISHI, J. See NAKANISHI, Y.
- KRUMLAUF, R. See HAMMER, R. E.
- KUUSELA, P. See HURMERINTA, K.
- LACALLI, T. C. and WEST, J. E. Ciliary band formation in the doliolaria larva of *Florumetra*. I. The development of normal epithelial pattern 96, 303
- LANGER, M. G., SUNDARRAJ, C. V. and SUNDARRAJ, N. Corneal epithelial-specific cell surface antigen recognized by a monoclonal antibody 94, 163
- LAWRENCE, P. A. and JOHNSTON, P. Observations on cell lineage of internal organs of *Drosophila* 91, 251
- LEASK, R. See WEST, J. D.
- LEHMANN, R. See FROHNHÖFER, H. G.
- LESOT, H., SMITH, A. J., MEYER, J.-M., STAUBLI, A. and RUCH, J. v. Cell-matrix interactions: influence of noncollagenous proteins from dentin on cultured dental cells 96, 195
- LEVAK-ŠVAJGER, B. See ŠVAJGER, A.
- LEVY, J. B., JOHNSON, M. H., GOODALL, H. and MARO, B. The timing of compaction: control of a major developmental transition in mouse early embryogenesis 95, 213
- LEWIS, J. See SWANSON, G. J.
- LHEUREUX, E., THOMS, S. D. and CAREY, F. The effects of two retinoids on limb regeneration in *Pleurodeles waltl* and *Triturus vulgaris* 92, 155
- LORBER, B. See SAMSEL, J.
- LUNDMARK, C. Role of bilateral zones of ingressing superficial cells during gastrulation of *Ambystoma mexicanum* 97, 47

- LYON, M. F., ZENTHON, J., EVANS, E. P., BURTENSHAW, M. D., WAREHAM, K. A. and WILLIAMS, E. D. Lack of inactivation of a mouse X-linked gene physically separated from the inactivation centre 97, 75
- LYON, M. F. See HOGAN, B. L. M.
- MCANDREW, T. J. See O'HIGGINS, P.
- MCCAIG, C. D. Myoblasts and notochord influence the orientation of somitic myoblasts from *Xenopus laevis* 93, 121
- MCCAIG, C. D. Electric fields, contact guidance and the direction of nerve growth 94, 245
- MCGRATH, J. and SOLTER, D. Nucleocytoplasmic interactions in the mouse embryo 97 Supplement, 277
- MACKAY, S. and SMITH, R. A. The differentiation of mouse gonads *in vitro*: a light and electron microscopical study 97, 189
- MCLAREN, A. See DEOL, M. S.
- MCPHEE, J. R. and VAN DE WATER, T. R. Epithelial-mesenchymal tissue interactions guiding otic capsule formation: the role of the otocyst 97, 1
- MADEN, M. and SUMMERBELL, D. Retinoic acid-binding protein in the chick limb bud: identification at developmental stages and binding affinities of various retinoids 97, 239
- MADEN, M. See SCADDING, S. R.
- MAHARAJAN, V. See DE PETROCELLIS, L.
- MALACINSKI, G. M. See CUNY, R.
- MALACINSKI, G. M. See SMITH, R. C.
- MARO, B., JOHNSON, M. H., WEBB, M. and FLACH, G. Mechanism of polar body formation in the mouse oocyte: an interaction between the chromosomes, the cytoskeleton and the plasma membrane 92, 11
- MARO, B. See FLEMING, T. P.
- MARO, B. See JOHNSON, M. H.
- MARO, B. See LEVY, J. B.
- MARO, B. See WEBB, M.
- MARTINS-GREEN, M. and ERICKSON, C. A. Development of neural tube basal lamina during neurulation and neural crest cell emigration in the trunk of the mouse embryo 98, 219
- MEE, J. E. and FRENCH, V. Disruption of segmentation in a short germ insect embryo. I. The location of abnormalities induced by heat shock 96, 245
- MEE, J. E. and FRENCH, V. Disruption of segmentation in a short germ insect embryo. II. The structure of segmental abnormalities induced by heat shock 96, 267
- MELTON, D. A. and REBAGLIATI, M. R. Anti-sense RNA injections in fertilized eggs as a test for the function of localized mRNAs 97 Supplement, 211
- MEYER, J.-M. See LESOT, H.
- MILBURN, A. See DIWAN, F. H.
- MINEI, R. See DE PETROCELLIS, L.
- MIZUNO, T. See MURAKAMI, R.
- MODLINSKI, J. A. See OZIL, J.-P.
- MONTAG, M. See TRENDLENBURG, M. F.
- MOOR, R. M. and CROSBY, I. M. Protein requirements for germinal vesicle breakdown in ovine oocytes 94, 207
- MOOR, R. M. See OSBORN, J. C.
- MOORE, G. P. M. See PISANSARAKIT, P.
- MORRIS-KAY, G. M., TUCKETT, F. and SOLURSH, M. The effects of *Streptomyces* hyaluronidase on tissue organization and cell cycle time in rat embryos 98, 59
- MORRIS-KAY, G. M. See TAN, S. S.
- MORRIS-KAY, G. M. See TUCKETT, F.
- MOSCARDELLI, S. See FRANCAVILLA, S.
- MUNEOKA, K., HOLLER-DINSMORE, G. V. and BRYANT, S. V. Pattern discontinuity, polarity and directional intercalation in axolotl limbs 93, 51
- MURAKAMI, R. and MIZUNO, T. Proximal-distal sequence of development of the skeletal tissues in the penis of rat and the inductive effect of epithelium 92, 123

- NAKANISHI, Y., SUGIURA, F., KISHI, J. and HAYAKAWA, T. Scanning electron microscopic observation of mouse embryonic submandibular glands during initial branching: preferential localization of fibrillar structures at the mesenchymal ridges participating in cleft formation 96, 65
- NAKATSUJI, N., SNOW, M. H. L. and WYLIE, C. C. Cinemicrographic study of the cell movement in the primitive-streak-stage mouse embryo 96, 99
- NANCHAHAL, K. See KEATING, M. J.
- NARBAITZ, R. and SOLEIMANI RAD, J. The role of ultimobranchial bodies in the modulation of the response of chick embryos to 1,25-dihydroxycholecalciferol 97, 87
- NEFF, A. W. See SMITH, R. C.
- NORRIS, M. L. See SURANI, M. A. H.
- NÜSSLEIN-VOLHARD, C. See FROHNHÖFER, H. G.
- O'HIGGINS, P., JOHNSON, D. R. and MCANDREW, T. J. The clonal model of vertebral column development: a reinvestigation of vertebral shape using Fourier analysis 96, 171
- ODELL, G. M. See JACOBSON, A. G.
- OLIVER, R. F. See HORNE, K. A.
- OLIVER, I. T. See WILLIAMS, C. L.
- ONO, T. and TUAN, R. S. Effect of experimentally induced calcium deficiency on development, metabolism and liver morphogenesis of the chick embryo 92, 207
- ONO, T. See TUAN, R. S.
- OOI, V. E. C., SANDERS, E. J. and BELLAIRS, R. The contribution of the primitive streak to the somites in the avian embryo 92, 193
- ORMEROD, E. J. and RUDLAND, P. S. Regeneration of mammary glands *in vivo* from isolated mammary ducts 96, 229
- OSBORN, J. C., MOOR, R. M. and CROSBY, I. M. Effect of alterations in follicular steroidogenesis on the nuclear and cytoplasmic maturation of ovine oocytes 98, 187
- OSTER, G. F. See JACOBSON, A. G.
- OUDET, P. See TRENDLENBURG, M. F.
- OZIL, J.-P. and MODLINSKI, J. A. Effects of electric field on fusion rate and survival of 2-cell rabbit embryos 96, 211
- PETIT, A. See SAMSEL, J.
- PICKERING, S. J. See FLEMING, T. P.
- PISANSARAKIT, P. and MOORE, G. P. M. Induction of hair follicles in mouse skin by rat vibrissa dermal papillae 94, 113
- POLANI, P. E. See COPP, A. J.
- PONDER, B. A. J. See SCHMIDT, G. H.
- POTTER, J. See WILLISON, K.
- PREISS, A. See JÄCKLE, H.
- PRISCOTT, P. K. See WILLIAMS, C. L.
- QASIM, F. See FLEMING, T. P.
- RANDS, G. F. Size regulation in the mouse embryo. I. The development of quadruple aggregates 94, 139
- RANDS, G. F. Size regulation in the mouse embryo. II. The development of half embryos 98, 209
- REBAGLIATI, M. R. See MELTON, D. A.
- REIK, W. See SURANI, M. A. H.
- REPRESA, J. J., BARBOSA, E. and GIRALDEZ, F. Electrical properties of the otic vesicle epithelium in the chick embryo 97, 125
- ROBERTS, H. M. See COPP, A. J.
- ROBINSON, S. J. See FROST, S. K.

- RODEMER, E. S., IHMER, A. and WARTENBERG, H. Gonadal development of the chick embryo following micro surgically caused agenesis of the mesonephros and using interspecific quail-chick chimaeras 98, 269
- ROSENBERG, U. B. See JÄCKLE, H.
- ROSSANT, J. See WATERS, B. K.
- ROWLANDS, T. F. See FRENCH, V.
- RUCH, J. V. See LESOT, H.
- RUDLAND, P. S. See ORMEROD, E. J.
- RÜTHER, U. See STEWART, C. L.
- SADLER, T. W., BURRIDGE, K. and YONKER, J. A potential role for spectrin during neurulation 94, 73
- SAMSEL, J., LORBER, B., PETIT, A. and WENIGER, J.-P. Analysis of the cytosolic proteins of chick embryo gonads by two-dimensional gel electrophoresis 94, 221
- SANDERS, E. J. Changes in the transferrin requirement of cultured chick embryo mesoderm cells during early differentiation 95, 81
- SANDERS, E. J. See OOI, V. E. C.
- SANYAL, S., DEES, C. and ZEILMAKER, G. H. Development and degeneration of retina in *rds* mutant mice: observations in chimaeras of heterozygous mutant and normal genotype 98, 111
- SCADDING, S. R. and MADEN, M. Comparison of the effects of vitamin A on limb development and regeneration in the axolotl, *Ambystoma mexicanum* 91, 19
- SCADDING, S. R. and MADEN, M. Comparison of the effects of vitamin A on limb development and regeneration in *Xenopus laevis* tadpoles 91, 35
- SCADDING, S. R. and MADEN, M. The effects of local application of retinoic acid on limb development and regeneration in tadpoles of *Xenopus laevis* 91, 55
- SCHEER, U. Injection of antibodies into the nucleus of amphibian oocytes: an experimental means of interfering with gene expression in the living cell 97 Supplement, 223
- SCHIERENBERG, E. Developmental strategies during early embryogenesis of *Caenorhabditis elegans* 97 Supplement, 31
- SCHMIDT, G. H., WILKINSON, M. M. and PONDER, B. A. J. Non-random spatial arrangement of clone sizes in chimaeric retinal pigment epithelium 91, 197
- SCHMIDT, G. H., WILKINSON, M. M. and PONDER, B. A. J. Clonal analysis of chimaeric patterns in aortic endothelium 93, 267
- SCHNEBELN, M. T. and KAUFMAN, M. H. Chromosome analysis of single-pronuclear haploid parthenogenetic blastocysts and their inner cell mass derivatives 98, 167
- SCHOENWOLF, G. C. See DESMOND, M. E.
- SCHOFIELD, P. N. See HYLDAHL, L.
- SCOTT, T. M. and BUNT, S. M. An examination of the evidence for the existence of preformed pathways in the neural tube of *Xenopus laevis* 91, 181
- SEIFERT, E. See JÄCKLE, H.
- SELWOOD, L. Cleavage *in vitro* following destruction of some blastomeres in the marsupial *Antechinus stuartii* (Macleay) 92, 71
- SHARPE, C. R. See HOPKINS, B.
- SHARPE, P. T. See COTTRILL, C. P.
- SHERMAN, M. I., EGLITIS, M. A. and THOMAS, R. Reversible and irreversible effects of retinol upon the phenotypic properties of embryonal carcinoma cells 93, 179
- SHI, W.-K. See HEATH, J. K.
- SHIOKAWA, K. See ATSUCHI, Y.
- SICKLES, D. W. See SOHAL, G. S.
- SIGNORET, J. and DAVID, J. C. DNA-ligase activity in axolotl early development: evidence for a multilevel regulation of gene expression 97 Supplement, 85
- SISODIYA, S. M. See STERN, C. D.
- ŠKREB, N. See ŠVAJGER, A.
- SMEDLEY, M. J. and STANISSTREET, M. Calcium and neurulation in mammalian embryos. II. Effects of cytoskeletal inhibitors and calcium antagonists on the neural folds of rat embryos 93, 167
- SMITH, A. J. See LESOT, H.

- SMITH, J. C. *See* HEASMAN, J.  
SMITH, R. A. *See* MACKAY, S.  
SMITH, R. C. Protein synthesis and messenger RNA levels along the animal-vegetal axis during early *Xenopus* development 95, 15  
SMITH, R. C., NEFF, A. W. and MALACINSKI, G. M. Accumulation, organization and deployment of oogenetically derived *Xenopus* yolk/nonyolk proteins 97 Supplement, 45  
SNAPE, A. *See* HEASMAN, J.  
SNOW, M. H. L. *See* NAKATSUJI, N.  
SOBIS, H., GOEBELS, J. and VANDEPUTTE, M. Histochemical and autoradiographic study of the cultured rat visceral yolk sac 97, 169  
SOHAL, G. S. and SICKLES, D. W. Embryonic differentiation of fibre types in normal, paralysed and aneural avian superior oblique muscle 96, 79  
SOLEIMANI RAD, J. *See* NARBATZ, R.  
SOLTER, D. *See* McGRATH, J.  
SOLURSH, M. *See* MORRIS-KAY, G. M.  
SPRING, H. *See* TRENDLENBURG, M. F.  
STANISSTREET, M. *See* SMEDLEY, M. J.  
STAUBLI, A. *See* LESOT, H.  
STERN, C. D., SISODIYA, S. M. and KEYNES, R. J. Interactions between neurites and somite cells: inhibition and stimulation of nerve growth in the chick embryo 91, 209  
STERNBERG, J. and KIMBER, S. J. Distribution of fibronectin, laminin and entactin in the environment of migrating neural crest cells in early mouse embryos 91, 267  
STERNBERG, J. and KIMBER, S. J. The relationship between emerging neural crest cells and basement membranes in the trunk of the mouse embryo: a TEM and immunocytochemical study 98, 251  
STEWART, C. L., RÜTHER, U., GARBER, C., VANEK, M. and WAGNER, E. F. The expression of retroviral vectors in murine stem cells and transgenic mice 97 Supplement, 263  
STRAZNICKY, C. *See* HISCOCK, J.  
STROME, S. Asymmetric movements of cytoplasmic components in *Caenorhabditis elegans* zygotes 97 Supplement, 15  
STUERMER, C. A. O. Pathways of regenerated retinotectal axons in goldfish. I. Optic nerve, tract and tectal fascicle layer 93, 1  
SUGIURA, F. *See* NAKANISHI, Y.  
SUMMERBELL, D. *See* MADEN, M.  
SUNDARRAJ, C. V. *See* LANGER, M. G.  
SUNDARRAJ, N. *See* LANGER, M. G.  
SUNKEL, C. E. *See* WHITTLE, J. R. S.  
SURANI, M. A. H., REIK, W., NORRIS, M. L. and BARTON, S. C. Influence of germline modifications of homologous chromosomes on mouse development 97 Supplement, 123  
ŠVAJGER, A., LEVAK-ŠVAJGER, B. and ŠKREB, N. Rat embryonic ectoderm as renal isograft 94, 1  
SWANSON, G. J. and LEWIS, J. Sensory nerve routes in chick wing buds deprived of motor innervation 95, 37  
  
TAKEICHI, M. *See* JOHNSON, M. H.  
TAM, P. P. L. A study on the pattern of prospective somites in the presomitic mesoderm of mouse embryos 92, 269  
TAM, P. P. L. *See* CHAN, W. Y.  
TAN, S. S. and MORRIS-KAY, G. M. Analysis of cranial neural crest cell migration and early fates in postimplantation rat chimaeras 98, 21  
TANAKA-OHMURA, Y. *See* YAMANAKA, H.  
TASHIRO, K. *See* ATSUCHI, Y.  
TENCER, R. *See* GAUTIER, J.  
THESLEFF, I. *See* HURMERINTA, K.  
THOMAS, R. *See* SHERMAN, M. I.  
THOMS, S. D. *See* LHEUREUX, E.  
TILGHMAN, S. M. *See* HAMMER, R. E.

- TIONG, S. Y. K. *See* WHITTLE, J. R. S.
- TOMLINSON, C. R. *See* JEFFERY, W. R.
- TOWN, C. D. *See* DOMINOV, J. A.
- TRENDELENBERG, M. F., OUDET, P., SPRING, H. and MONTAG, M. DNA injections into *Xenopus* embryos: fate of injected DNA in relation to formation of embryonic nuclei 97 Supplement, 243
- TRUBY, P. R. The growth of supernumerary legs in the cockroach 92, 115
- TRUSLOVE, G. M. *See* DEOL, M. S.
- TUAN, R. S. and ONO, T. Regulation of extraembryonic calcium mobilization by the developing chick embryo 97, 63
- TUAN, R. S. *See* ONO, T.
- TUCKER, R. P. The role of glycosaminoglycans in anuran pigment cell migration 92, 145
- TUCKER, R. P. and ERICKSON, C. A. The control of pigment cell pattern formation in the Californian newt, *Taricha torosa* 97, 141
- TUCKETT, F. and MORRISS-KAY, G. M. The distribution of fibronectin, laminin and entactin in the neurulating rat embryo studied by indirect immunofluorescence 94, 95
- TUCKETT, F. *See* MORRISS-KAY, G. M.
- VAN BLERKOM, J. and BELL, H. Regulation of development in the fully grown mouse oocyte: chromosome-mediated temporal and spatial differentiation of the cytoplasm and plasma membrane 93, 213
- VAN DE WATER, T. R. *See* MCPHEE, J. R.
- VAN OVERBEEKE, A. P. *See* EAGLESON, G. W.
- VAN ROSSUM-KOK, C. M. J. E. *See* VAN VORSTENBOSCH, C. J. A. H. V.
- VAN VORSTENBOSCH, C. J. A. H. V., VAN ROSSUM-KOK, C. M. J. E., COLENBRANDER, B. and WENSING, C. G. J. Some histochemical and ultrastructural observations on the early foetal pig testis 95, 261
- VANDEPUTTE, M. *See* SOBIS, H.
- VANEK, M. *See* STEWART, C. L.
- VAUPEL, S. *See* BECHTOL, K. B.
- WAGNER, E. F. *See* STEWART, C. L.
- WAREHAM, K. A. and WILLIAMS, E. D. Estimation of the primordial pool size of the mouse liver using a histochemically demonstrable X-linked enzyme in the adult female mouse 95, 239
- WAREHAM, K. A. *See* LYON, M. F.
- WAREHAM, K. A. *See* WILLIAMS, E. D.
- WARTENBERG, H. *See* RODEMER, E. S.
- WATANABE, K. *See* DAN-SOHWAKA, M.
- WATERS, B. K. and ROSSANT, J. The effect of retinoic acid pretreatment on the ability of murine embryonal carcinoma and inner cell mass cells to participate in chimaera development 98, 99
- WATSON, C. *See* WILLISON, K.
- WAXMAN, S. G. *See* ANDERSON, M. J.
- WEBB, M., HOWLETT, S. K. and MARO, B. Parthenogenesis and cytoskeletal organization in ageing mouse eggs 95, 131
- WEBB, M. *See* MARO, B.
- WEBSTER, E. H. JR, ZWAAN, J. and COOPER, P. Abnormal accumulation of sulphated materials in lens tissue of mice with the aphakia mutation 92, 85
- WENIGER, J.-P. *See* SAMSEL, J.
- WENSING, C. J. G. *See* VAN VORSTENBOSCH, C. J. A. H. V.
- WEST, J. D., LEASK, R. and GREEN, J. F. Quantification of the transition from oocyte-coded to embryo-coded glucose phosphate isomerase in mouse embryos 97, 225
- WEST, J. E. *See* LACALLI, T. C.
- WHITTLE, J. R. S., TIONG, S. Y. K. and SUNKEL, C. E. The effect of lethal mutations and deletions within the bithorax complex upon the identity of caudal metameres in the *Drosophila* embryo 93, 153



- WIGMORE, P. Regeneration from half lower arms in the axolotl 95, 247  
WIGMORE, P. and HOLDER, N. The effect of replacing different regions of limb skin with head skin on regeneration in the axolotl 98, 237  
WILKINSON, M. M. See SCHMIDT, G. H.  
WILLIAMS, C. L., PRISCOTT, P. K., OLIVER, I. T. and YEOH, G. C. T. Albumin and transferrin synthesis in whole rat embryo cultures 92, 33  
WILLIAMS, E. D. See LYON, M. F.  
WILLIAMS, E. D. See WAREHAM, K. A.  
WILLISON, K., DUDLEY, K., POTTER, J., HAFFNER, R. and WATSON, C. Molecular analysis of mouse spermatogenesis: isolation of the *t*-complex polypeptide-1 gene and related sequences 97 Supplement, 151  
WILLSHAW, D. J. and GAZE, R. M. The discontinuous visual projections on the *Xenopus* optic tectum following regeneration after unilateral nerve section 94, 121  
WOLPERT, L. See COTTRILL, C. P.  
WOLPERT, L. See HORNBRUCH, A.  
WYLIE, C. C. See GODSAVE, S. F.  
WYLIE, C. C. See HEASMAN, J.  
WYLIE, C. C. See NAKATSUJI, N.
- YAMANA, K. See ATSUCHI, Y.  
YAMANA, K. See KAGEURA, H.  
YAMANAKA, H., TANAKA-OHMURA, Y. and DAN-SOHWAKA, M. What do dissociated embryonic cells of the starfish, *Asterina pectinifera*, do to reconstruct bipinnaria larvae? 94, 61  
YAMANAKA, H. See DAN-SOHWAKA, M.  
YAMANAKA, H. See HONDA, H.  
YEOH, G. C. T. See WILLIAMS, C. L.  
YONKER, J. See SADLER, T. W.
- ZEILMAKER, G. H. See SANYAL, S.  
ZENTHON, J. See LYON, M. F.  
ZIMMERMAN, E. F. See BULLEIT, R. F.  
ZWAAN, J. See WEBSTER, E. H.



# Subject Index

## Actin

- effect of microinjection of antibodies into amphibian oocytes: SCHEER 97 Supplement, 223
- maternal mRNA as determinant in ascidian embryo: JEFFERY, BATES, BEACH & TOMLINSON 97 Supplement, 1
- potential role for spectrin in mouse neurulation: SADLER, BURRIDGE & YONKER 94, 73

## Activation

- of muscle gene by induction: GURDON & FAIRMAN 97 Supplement, 75

## Adenohypophysis

- origin of pituitary adrenocorticotropes in *Xenopus*: EAGLESON, JENKS & VAN OVERBEEKE 95, 1

## Adenosine triphosphate (ATP)

- effect of reduced levels on reorientation of mouse palate: BULLEIT & ZIMMERMAN 93, 73
- innervation of muscles in normal, paralysed and aneural embryos: SOHAL & SICKLES 96, 79

## AFP (See $\alpha$ -foetoprotein)

## Ageing

- mouse eggs and parthenogenesis: WEBB, HOWLETT & MARO 95, 131

## Agensis

- of chick mesonephros and gonadal development: RODEMER, IHMER & WARTENBERG 98, 269

## Agglutinin

- Dolichos biflorus*
- used as strain-specific marker in mouse clonal analysis: SCHMIDT, WILKINSON & PONDER 93, 267

## Aggregation chimaera

- size regulation in mouse embryos: RANDS 94, 139

## Albino

- mutation
- genetic activity in Cattanach's insertion: DEOL, TRUSLOVE & McLAREN 96, 295
- phenotype in axolotl - pigmentary system: FROST, EPP & ROBINSON 92, 255

## Albumin

- and transferrin synthesis in whole rat embryo cultures: WILLIAMS, PRISCOTT, OLIVER & YEOH 92, 33

## Alcian blue

- used to study branching morphogenesis in avian lung: GALLAGHER 94, 189

## Alkaline phosphatase

- maternal mRNA as determinant in ascidian embryo: JEFFERY, BATES, BEACH & TOMLINSON 97 Supplement, 1

## Allophenic

### mice

- vertebral shape - clonal model reinvestigated with Fourier analysis: O'HIGGINS, JOHNSON & McANDREW 96, 171

## Allozymes

- GPI-1 activity in mouse embryos: WEST, LEASK & GREEN 97, 225

## Alveolar cells

- in regenerated rat mammary glands: ORMEROD & RUDLAND 96, 229

## Ambystoma mexicanum

### gastrulation

- role of ingressing superficial cells: LUNDMARK 97, 47

### larvae

- effects of vitamin A on limb development and regeneration: SCADDING & MADEN 91, 19

### limb regeneration

- pattern discontinuity, polarity and intercalation: MUNEOKA, HOLLER-DINSMORE & BRYANT 93, 51

### mutants

- retina and lens development: CUNY & MALACINSKI 96, 151

### oocyte

- changes in patterns of protein synthesis during maturation: GAUTIER & TENCER 92, 103

- pathway selection by developing peripheral axons: FREEMAN & DAVEY 91, 117

### pigmentary system

- analysis of albino phenotype: FROST, EPP & ROBINSON 92, 255
- analysis of the axanthic phenotype: FROST, EPP & ROBINSON 95, 117

### regeneration

- effect of replacing limb skin with head skin: WIGMORE & HOLDER 98, 237
- of double dorsal and double ventral limbs: BURTON, HOLDER & JESANI 94, 29

## Amphibia

- effects of retinoids on limb regeneration: LHEUREUX, THOMS & CAREY 92, 165

- oocyte  
 injection of antibodies: SCHEER  
 97 Supplement, 223  
 pathway selection by developing peripheral  
 axons: FREEMAN & DAVEY 91, 117  
 visual deprivation and retinotectal  
 projections in *Xenopus laevis*: KEATING,  
 GRANT, DAWES & NANCHAHAL 91, 101
- Androgenones**  
 chromosomal determinants of mouse  
 development: SURANI, REIK, NORRIS &  
 BARTON 97 Supplement, 123
- Androgens**  
 role in development of rat os penis:  
 MURAKAMI & MIZUNO 92, 133
- Aneuploidy**  
 in mouse embryo: DEBROT & EPSTEIN  
 91, 169
- Animal-vegetal axis**  
 protein synthesis and mRNA during  
*Xenopus* early development:  
 SMITH 95, 15
- Anisomycin**  
 timing of compaction in mouse: LEVY,  
 JOHNSON, GOODALL & MARO 95, 213
- Anechinus stuartii**  
 cleavage *in vitro* following destruction of  
 some blastomeres: SELWOOD 92, 71
- Anterior**  
 determinants in *Chironomus* eggs:  
 KALTHOFF & ELBETIEHA  
 97 Supplement, 181
- Anteroposterior**  
 pattern in *Drosophila* embryo:  
 FROHNHÖFER, LEHMANN & NÜSSLEIN-  
 VOLHARD 97 Supplement, 169
- Antibody**  
 injection into amphibian oocyte: SCHEER  
 97 Supplement, 223  
 potential role for spectrin in mouse  
 neurulation: SADLER, BURRIDGE &  
 YONKER 94, 73
- Antigen**  
 adhesion-related differentiation antigen  
 XT-1: BECHTOL, HO & VAUPEL 93, 197  
 expression in *Dictyostelium* monolayer  
 cultures: DOMINOV & TOWN 96, 131  
 surface (SSEA-1)  
 effects of retinol on embryonal  
 carcinoma cells: SHERMAN, EGLITIS &  
 THOMAS 93, 179  
 used to study organization of *Xenopus* egg  
 proteins: SMITH, NEFF & MALACINSKI  
 97 Supplement, 45
- Anti-sense RNA**  
 injections in frog eggs: MELTON &  
 REBAGLIATI 97 Supplement, 211  
 in *Xenopus* oocytes and embryos: COLMAN  
 & DRUMMOND 97 Supplement, 197  
 probing gene activity in *Drosophila*  
 embryos: JÄCKLE, SEIFERT, PREISS &  
 ROSENBERG 97 Supplement, 157
- Aortic endothelium**  
 clonal analysis of chimaeric patterns in  
 mouse: SCHMIDT, WILKINSON & PONDER  
 93, 267
- Aphakia**  
 mutation in mice - accumulation of  
 sulphated materials in lens: WEBSTER,  
 ZWAAN & COOPER 92, 85
- Apical ectodermal ridge**  
 in chick limb bud: BELL 93, 257
- Apolipoproteins**  
 transcripts in human embryos: HOPKINS,  
 SHARPE, BARALLE & GRAHAM 97, 177
- Apterionotus albifrons**  
 regeneration of spinal cord: ANDERSON,  
 CHOY & WAXMAN 96, 1
- Aqueous two-phase partition**  
 study of chick limb mesenchymal  
 diversification: COTTRILL, SHARPE &  
 WOLPERT 94, 267
- Ascidian**  
 embryo  
 maternal mRNA as determinant of  
 tissue-specific proteins: JEFFERY, BATES,  
 BEACH & TOMLINSON 97 Supplement, 1
- Asterina pectinifera**  
 reconstruction of bipinnaria from  
 dissociated embryonic cells: DAN-  
 SOHKAWA, YAMANAKA & WATANABE  
 94, 47  
 YAMANAKA, TANAKA-OHMURA & DAN-  
 SOHKAWA 94, 61
- Asymmetric**  
 movement of cytoplasm in *Caenorhabditis*  
 zygote: STROME 97 Supplement, 15
- Autoradiographic**  
 and histochemical study of rat visceral yolk  
 sac: SOBIS, GOEBELS & VANDEPUTTE  
 97, 169
- Autoradiography**  
 ocular migration and maturation of  
 retinotectal system: GRANT & KEATING  
 92, 43  
 origin of pituitary adrenocorticotropes in  
*Xenopus*: EAGLESON, JENKS & VAN  
 OVERBEEKE 95, 1

- Autotransplantation**  
of regenerated muscle in rat: GULATI 92, 1
- Avian**  
embryo  
contribution of primitive streak to the somites: OOI, SANDERS & BELLAIRS 92, 193  
muscle  
innervation in normal, paralysed and aneural embryos: SOHAL & SICKLES 96, 79  
oviduct  
computer simulation of cellular pattern changes: HONDA, YAMANAKA & EGUCHI 98, 1
- Axanthic mutant**  
of axolotl - analysis of pigmentary system: FROST, EPP & ROBINSON 95, 117
- Axolotl**  
DNA-ligase activity in early development: SIGNORET & DAVID 97 Supplement, 85  
larvae  
effects of vitamin A on limb development and regeneration: SCADDING & MADEN 91, 19  
limb regeneration  
pattern discontinuity, polarity and intercalation: MUNEOKA, HOLLERDINSMORE & BRYANT 93, 51  
mutants  
retina and lens development: CUNY & MALACINSKI 96, 151  
oocyte  
changes in patterns of protein synthesis during maturation: GAUTIER & TENCER 92, 103  
pathway selection by developing peripheral axons: FREEMAN & DAVEY 91, 117  
pigmentary system  
analysis of albino phenotype: FROST, EPP & ROBINSON 92, 255  
analysis of the axanthic phenotype: FROST, EPP & ROBINSON 95, 117  
regeneration  
effect of replacing limb skin with head skin: WIGMORE & HOLDER 98, 237  
from half lower arms: WIGMORE 95, 247  
of double dorsal and double ventral limbs: BURTON, HOLDER & JESANI 94, 29
- Axonal guidance**  
in chick wing buds deprived of motor innervation: SWANSON & LEWIS 95, 37  
in hindlimb development of axolotl: FREEMAN & DAVEY 91, 117
- Axonal regrowth**  
optic nerve, tract and tectal fascicle layer in goldfish: STUERMER 93, 1
- Axonic projection**  
of mesencephalic trigeminal neurones in chick embryo: HISCOCK & STRAZNICKY 93, 281
- 5-azacytidine**  
bud induction in decapitated hydra: DE PETROCELLIS, MAHARAJAN, DE PETROCELLIS & MINEI 93, 105
- Bacterial collagenase**  
effect on branching of submandibular glands: NAKANISHI, SUGIURA, KISHI & HAYAKAWA 96, 65
- Basal lamina**  
of neural tube in mouse embryo: MARTINS-GREEN & ERICKSON 98, 219  
structure in developing avian lung: GALLAGHER 94, 189
- Basement membrane**  
and neural crest cells in mouse embryo: STERNBERG & KIMBER 98, 251  
cellular origin of fibronectin in developing tooth: HURMERINTA, KUUSALA & THESLEFF 95, 73  
of developing chick lung: GALLAGHER 94, 173
- Binding affinities**  
for retinoic acid in chick limb bud: MADEN & SUMMERBELL 97, 239
- Biomechanics**  
study of growth in clavicle of embryonic chick: HALL 93, 133
- Bipinnaria**  
reconstruction from dissociated embryonic cells of *Asterina*: DAN-SOHWKAWA, YAMANAKA & WATANABE 94, 47  
YAMANAKA, TANAKA-OHMURA & DAN-SOHWKAWA 94, 61
- Birth defects**  
in mutant, lidgap-Miller, foetal mice: HARRIS & JURLOFF 91, 1
- Bithorax complex**  
effect of lethal mutations and deletions on caudal metameres: WHITTLE, TIONG & SUNKEL 93, 153
- Blastema**  
formation in cockroach supernumerary leg: TRUBY 92, 115
- Blastocyst**  
mouse  
chromosome analysis of haploid parthenogenotes: SCHNEBELEN & KAUFMAN 98, 167  
role of cell adhesion in polarization: JOHNSON, MARO & TAKEICHI 93, 239

**Blastoderm**

- chick and quail
  - migration of primordial germ cells to germinal crescent: GINSBURG & EYAL-GILADI 95, 53

**Blastomere**

- marsupial
  - cleavage *in vitro* following destruction of some blastomeres: SELWOOD 92, 71

**Boundary model**

- for pattern formation in insect thoracic segment: FRENCH & ROWLANDS 98, 137

**Brain**

- chick
  - intrinsic and extrinsic factors in occlusion: DESMOND & SCHOENWOLF 97, 25

**Branching morphogenesis**

- in avian lung - electron microscopic studies: GALLAGHER 94, 189
- of chick lung - basal laminar thinning: GALLAGHER 94, 173

**Bud**

- induction in decapitated hydra by 5-azacytidine: DE PETROCELLIS, MAHARAJAN, DE PETROCELLIS & MINEI 93, 105

**Cadherin**

- used to study role of cell adhesion in blastomere polarization: JOHNSON, MARO & TAKEICHI 93, 239

**Caenorhabditis elegans**

- embryo
  - developmental strategies in early embryogenesis: SCHIERENBERG 97 Supplement, 31
- zygote
  - asymmetric movements of cytoplasm: STROME 97 Supplement, 15

**Calcium**

- and neurulation in rat embryo - effects of cytoskeletal inhibitors: SMEDLEY & STANISSTREET 93, 167
- deficiency
  - effect on development, metabolism and liver morphogenesis: ONO & TUAN 92, 207
  - in shell-less chick embryos: TUAN & ONO 97, 63
- effect of low calcium medium on compaction in mouse embryo: GOODALL 91, 283
- response of chick embryos to  $1,25(\text{OH})_2\text{D}_3$ : NARBAITZ & SOLEIMANI RAD 97, 87

**Capping**

- of RNA in *Xenopus* oocytes and embryos: COLMAN & DRUMMOND 97 Supplement, 197

**Capsule**

- of eye in mice - accumulation of sulphated materials: WEBSTER, ZWAAN & COOPER 92, 85
- otic
  - formation in mouse - role of otocyst: MCPHEE & VAN DE WATER 97, 1

**Cartilage**

- growth in clavicle of embryonic chick: HALL 93, 133

**Casein**

- production in regenerated rat mammary glands: ORMEROD & RUDLAND 96, 229

**Cattanach's insertion**

- genetic activity at the albino locus: DEOL, TRUSLOVE & MCLAREN 96, 295

**Caudal segmentation**

- effect of lethal mutations and deletions within bithorax complex: WHITTLE, TIONG & SUNKEL 93, 153

**Cell**

- matrix interaction in cultured rabbit dental cells: LESOT, SMITH, MEYER, STAUBLI & RUCH 96, 195

**Cell adhesion**

- computer simulation of changes in avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1
- effect on histone H4 mRNA levels in *Xenopus* embryonic cells: ATSUCHI, TASHIRO, YAMANA & SHIOKAWA 98, 175
- role in polarization in 8-cell mouse blastomeres: JOHNSON, MARO & TAKEICHI 93, 239

**Cell boundary**

- contraction - computer simulation of avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1

**Cell-cell adhesion**

- biochemical characterization of differentiation antigen XT-1: BECHTOL, HO & VAUPEL 93, 197

**Cell culture**

- whisker growth induced in rat by dermal papilla cells: HORNE, JAHODA & OLIVER 97, 111

**Cell cycle**

- during germinal vesicle breakdown in ovine oocytes: MOOR & CROSBY 94, 207
- increase in time after hyaluronidase in rat embryos: MORRIS-KAY, TUCKETT & SOLURSH 98, 59



**Cell death**

- during interdigital tissue chondrogenesis induced in chick leg bud: HURLE & GAÑAN 94, 231

**Cell differentiation**

- during chondrogenesis of chick chondrocranium: GOLDSTEIN, JANKIEWICZ & DESMOND 93, 29
- in monolayer cultures of *Dictyostelium*: DOMINOV & TOWN 96, 131

**Cell division**

- muscle gene activation by induction: GURDON & FAIRMAN 97 Supplement, 75

**Cell fate**

- in *Caenorhabditis* zygote: STROME 97 Supplement, 15

**Cell flattening**

- during compaction of mouse embryo: GOODALL 91, 283

**Cell interaction**

- developmental restrictions in *Xenopus* embryos: HEASMAN, SNAPE, SMITH & WYLIE 97 Supplement, 65

**Cell lineage**

- of internal organs of *Drosophila*: LAWRENCE & JOHNSTON 91, 251
- role for cytoplasmic determinants in early mouse development: JOHNSON, CHISHOLM, FLEMING & HOULISTON 97 Supplement, 97
- tracing in ingressing superficial cells in *Ambystoma* gastrulation: LUNDMARK 97, 47

**Cell migration**

- chick embryo cells: SANDERS 95, 81
- cinemicrographic study in mouse embryo: NAKATSUJI, SNOW & WYLIE 96, 99
- distribution of fibronectin, laminin and entactin in mouse embryo: STERNBERG & KIMBER 91, 267
- during chondrogenesis of chick chondrocranium: GOLDSTEIN, JANKIEWICZ & DESMOND 93, 29
- of neural crest in postimplantation rat chimaeras: TAN & MORRIS-KAY 98, 21

**Cell pattern**

- changes - computer simulation of avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1

**Cell patterning**

- during mouse secondary palate closure: BRINKLEY & BOOKSTEIN 96, 111

**Cell polarity**

- role of cortical microfilaments in mouse embryo: FLEMING, PICKERING, QASIM & MARO 95, 169

**Cell proliferation**

- in mouse chimaeric retinal pigment epithelium: SCHMIDT, WILKINSON & PONDER 91, 197

**Cell surface**

- corneal epithelial-specific antigen: LANGER, SUNDARAJ & SUNDARAJ 94, 163

**Cellular contribution**

- to limb regenerate in axolotl: MUNEOKA, HOLLER-DINSMORE & BRYANT 93, 51

**Central nervous system**

- intermediate filaments in *Xenopus*: GODSAVE, ANDERTON & WYLIE 97, 201

**Checkerboard**

- pattern - computer simulation of avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1

**Chick****embryo**

- axonic projections of chick mesencephalic trigeminal neurones: HISCOCK & STRAZNICKY 93, 281
- calcium mobilization in shell-less cultures: TUAN & ONO 97, 63
- cytosolic proteins of gonads: SAMSEL, LORBER, PETIT & WENIGER 94, 221
- effect of calcium deficiency on metabolism and liver morphogenesis: ONO & TUAN 92, 207
- electrical properties of otic vesicle epithelium: REPRESA, BARBOSA & GIRALDEZ 97, 125
- fate of brachial muscles innervated by inappropriate nerves: BUTLER, CAUWENBERGS & COSMOS 95, 147
- gonadal development following quail-chick grafting: RODEMER, IHMER & WARTENBERG 98, 269
- identification of glycosaminoglycans during chondrogenesis: GOLDSTEIN, JANKIEWICZ & DESMOND 93, 29
- interactions between neurites and somite cells: STERN, SISODIYA & KEYNES 91, 209
- interdigital tissue chondrogenesis induced in leg bud: HURLE & GAÑAN 94, 231
- intrinsic and extrinsic factors in occlusion: DESMOND & SCHOENWOLF 97, 25
- retinoic acid-binding protein in limb bud: MADEN & SUMMERBELL 97, 239
- role of ultimobranchial bodies in response to  $1,25(\text{OH})_2\text{D}_3$ : NARBAITZ & SOLEIMANI RAD 97, 87
- transferrin requirement of mesoderm cells: SANDERS 95, 81

- epiblast
  - migration of primordial germ cells to germinal crescent: GINSBURG & EYAL-GILADI 95, 53
- limb
  - handedness after rotation of wing bud: JAVOIS & ITEN 91, 135
  - mesenchymal diversification: COTTRILL, SHARPE & WOLPERT 94, 267
- limb bud
  - characterization of mitogens secreted *in vitro*: BELL 93, 257
  - positional signalling by Hensen's node grafts: HORNBRUCH & WOLPERT 94, 257
  - sensory nerve routes when deprived of motor innervation: SWANSON & LEWIS 95, 37
- lung
  - basal laminar thinning demonstrated by lectin probes: GALLAGHER 94, 173
  - branching morphogenesis studied with cationic dyes: GALLAGHER 94, 189
  - role of tissue interactions in growth of clavicle: HALL 93, 133
- Chick/quail grafts
  - to study contribution of primitive streak to the somites: OOI, SANDERS & BELLAIRS 92, 193
- Chimaera
  - mouse
    - clonal analysis of patterns in aortic endothelium: SCHMIDT, WILKINSON & PONDER 93, 267
    - effect of retinoic acid pretreatment on development: WATERS & ROSSANT 98, 99
    - rds* gene expression in retina: SANYAL, DEES & ZEILMAKER 98, 111
    - non-random spatial arrangement of clone size in retinal epithelium: SCHMIDT, WILKINSON & PONDER 91, 197
    - of primordial cells in postimplantation mouse embryo: COPP, ROBERTS & POLANI 95, 95
    - quadruple aggregates of early mouse embryos: RANDS 94, 139
    - quail-chick
      - gonadal development: RODEMER, IHMER & WARTENBERG 98, 269
- Chironomus
  - microinjection of anterior determinants: KALTHOFF & ELBETIEHA 97 Supplement, 181
- Chondrogenesis
  - induced by removal of ectoderm in chick leg bud: HURLE & GAÑAN 94, 231
  - role in development of rat os penis: MURAKAMI & MIZUNO 92, 133
- Chondroitin sulphate
  - in chondrocranium of chick embryos: GOLDSTEIN, JANKIEWICZ & DESMOND 93, 29
- Chorioallantoic grafts
  - used to study growth in clavicle of embryonic chick: HALL 93, 133
- Chorioallantoic membrane
  - calcium mobilization in chick embryo: TUAN & ONO 97, 63
- Chromatin
  - effect of microinjection of antibodies into amphibian oocytes: SCHEER 97 Supplement, 223
- Chromosomal
  - determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123
  - imprinting - chromosomal determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123
- Chromosome
  - mediated differentiation of cytoplasm and membrane of mouse oocyte: VAN BLERKOM & BELL 93, 213
  - of mouse haploid parthenogenetic blastocysts: SCHNEBELEN & KAUFMAN 98, 167
- Chromosome 2
  - Small eyes* mutation in mouse: HOGAN AND OTHERS 97, 95
- Chromosomes
  - interactions during polar body formation in mouse oocyte: MARO, JOHNSON, WEBB & FLACH 92, 11
- Ciliary band
  - formation in the doliolaria larva of *Florumetra*: LACALLI & WEST 96, 303
- Cinemicrography
  - of cell movement in mouse embryo: NAKATSUJI, SNOW & WYLIE 96, 99
- Clavicle
  - growth of bone and cartilage in embryonic chick: HALL 93, 133
- Cleavage
  - asymmetric movement of cytoplasm in *Caenorhabditis* zygote: STROME 97 Supplement, 15
  - in vitro* following destruction of blastomeres in marsupial: SELWOOD 92, 71

- Cleft formation**  
 role in branching of mouse embryonic submandibular glands: NAKANISHI, SUGIURA, KISHI & HAYAKAWA 96, 65
- Clonal analysis**  
 of chimaeric patterns in mouse aortic endothelium: SCHMIDT, WILKINSON & PONDER 93, 267
- Clonal model**  
 of vertebral column development: O'HIGGINS, JOHNSON & McANDREW 96, 171
- Clones**  
 non-random spatial arrangement in chimaeric retinal epithelium: SCHMIDT, WILKINSON & PONDER 91, 197
- Cockroach**  
 growth of supernumerary legs: TRUBY 92, 115
- Colchicine**  
 effects on neural folds in rat embryo: SMEDLEY & STANISSTREET 93, 167
- Collagen**  
 fibrils localization during branching of submandibular glands: NAKANISHI, SUGIURA, KISHI & HAYAKAWA 96, 65  
 gel culture to show transferrin requirement of chick embryo cells: SANDERS 95, 81  
 orientation during branching morphogenesis in avian lung: GALLAGHER 94, 189  
 type IV in mouse embryonic basement membrane: STERNBERG & KIMBER 98, 251
- Collagenase**  
 inhibitor - effect on branching of submandibular glands: NAKANISHI, SUGIURA, KISHI & HAYAKAWA 96, 65
- Commitments**  
 developmental restrictions in *Xenopus* embryos: HEASMAN, SNAPE, SMITH & WYLIE 97 Supplement, 65
- Compaction**  
 timing in mouse early embryogenesis: LEVY, JOHNSON, GOODALL & MARO 95, 213
- Compartments**  
 organization of *Xenopus* egg proteins: SMITH, NEFF & MALACINSKI 97 Supplement, 45
- Composite embryos**  
 of *Xenopus laevis* - pattern formation: KAGEURA & YAMANA 91, 79
- Computer**  
 analysis of vertebral shape using Fourier analysis: O'HIGGINS, JOHNSON & McANDREW 96, 171  
 simulation of cellular patterns in avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1
- Conditioning effect**  
 during skeletal muscle regeneration in rat: GULATI 92, 1
- Connections**  
 shifting in *Rana* retinotectal system: FRASER & HUNT 94, 149
- Contact guidance**  
 electric fields and direction of nerve outgrowth: McCAIG 94, 245
- Contact inhibition**  
 pigment cell pattern formation in *Taricha*: TUCKER & ERICKSON 97, 141
- Contraction**  
 cell boundary - computer simulation of avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1
- Cornea**  
 epithelial-specific cell surface antigen: LANGER, SUNDARAJ & SUNDARAJ 94, 163  
 human  
 effects of insulin-like growth factors on DNA synthesis: HYLDAHL, ENGSTRÖM & SCHOFIELD 98, 71
- Cortical tractor**  
 for epithelial folding and neurulation: JACOBSON, OSTER, ODELL & CHENG 96, 19
- Cortisone**  
 effect on eyelid development in mutant foetal mice: HARRIS & JURILOFF 91, 1
- Coturnix coturnix japonica***  
 neural crest  
 migration through somites: GUILLORY & BRONNER-FRASER 98, 85
- Culture**  
 chimaerism of primordial cells after primitive streak grafting: COPP, ROBERTS & POLANI 95, 95  
 embryo  
 used to study neural crest migration in rat chimaeras: TAN & MORRIS-KAY 98, 21
- Cycloheximide**  
 used to study protein requirements in ovine oocytes: MOOR & CROSBY 94, 207
- Cytochalasin B**  
 effects on neural folds in rat embryo: SMEDLEY & STANISSTREET 93, 167
- Cytochalasin D**  
 to investigate role of cortical microfilaments in polarity: FLEMING, PICKERING, QASIM & MARO 95, 169

- Cytocortex**  
role in early mouse development: JOHNSON, CHISHOLM, FLEMING & HOULISTON  
97 Supplement, 97
- Cytokeratins**  
intermediate filaments in *Xenopus* CNS, skin and notochord: GODSAVE, ANDERTON & WYLIE 97, 201
- Cytoplasm**  
transplantation in *Drosophila*: FROHNHÖFER, LEHMANN & NÜSSELEIN-VOLHARD  
97 Supplement, 169
- Cytoplasmic**  
maturation of ovine oocytes and steroids: OSBORN, MOOR & CROSBY 98, 187
- Cytoskeletal organization**  
and parthenogenesis in ageing mouse eggs: WEBB, HOWLETT & MARO 95, 131  
of *Xenopus* egg proteins: SMITH, NEFF & MALACINSKI 97 Supplement, 45
- Cytoskeleton**  
asymmetric movement of cytoplasm in *Caenorhabditis* zygote: STROME  
97 Supplement, 15  
potential role for spectrin in mouse neurulation: SADLER, BURRIDGE & YONKER 94, 73
- Degeneration**  
of retina in *rd*s mutant mice: SANYAL, DEES & ZEILMAKER 98, 111
- Deletion**  
in bithorax complex  
effect of lethal mutations and deletions on caudal metameres: WHITTLE, TIONG & SUNKEL 93, 153
- Dental papilla**  
cell-matrix interactions in cultured rabbit dental cells: LESOT, SMITH, MEYER, STAUBLI & RUCH 96, 195
- Dentin**  
cell-matrix interactions in cultured rabbit dental cells: LESOT, SMITH, MEYER, STAUBLI & RUCH 96, 195
- Dermal papilla**  
induction of hair follicles in mouse skin: PISANSARAKIT & MOORE 94, 113  
whisker growth induced in rat by cultured cells: HORNE, JAHODA & OLIVER 97, 111
- Dermis**  
melanophores of periodic albino mutant of *Xenopus laevis*: FUKUZAWA & IDE 91, 65
- Determinant**  
anterior in *Chironomus* eggs: KALHOFF & ELBETIEHA 97 Supplement, 181  
chromosomal of mouse development: SURANI, REIK, NORRIS & BARTON  
97 Supplement, 123
- cytoplasmic - role in mouse early development: JOHNSON, CHISHOLM, FLEMING & HOULISTON  
97 Supplement, 97
- role of maternal mRNA in ascidian protein synthesis: JEFFERY, BATES, BEACH & TOMLINSON 97 Supplement, 1
- Determination**  
developmental restrictions in *Xenopus* embryos: HEASMAN, SNAPE, SMITH & WYLIE 97 Supplement, 65  
developmental strategies in early embryogenesis of *Caenorhabditis*: SCHIERENBERG 97 Supplement, 31
- Diazepam**  
effects on neural folds in rat embryo: SMEDLEY & STANISSTREET 93, 167
- Dictyostelium discoideum**  
regulation of stalk and spore antigen expression: DOMINOV & TOWN 96, 131
- Differentiation antigen**  
on human corneal epithelium: LANGER, SUNDARRAJ & SUNDARRAJ 94, 163
- Diffusible morphogen**  
secreted by chick embryonic wing bud tissues: BELL 93, 257
- 1,25-dihydroxycholecalciferol (1,25(OH)<sub>2</sub>D<sub>3</sub>)**  
role of ultimobranchial bodies in response of chick embryos: NARBAITZ & SOLEIMANI RAD 97, 87
- Dileptus anser**  
microtubular organelles in overfed cells: GOLINSKA 93, 85
- Disc**  
retina  
shedding properties in *rd*s gene chimeras: SANYAL, DEES & ZEILMAKER 98, 111
- Discoglossus pictus**  
role of glycosaminoglycans in pigment cell migration: TUCKER 92, 145
- Disomy**  
parental origin effects in mice: CATTANACH 97 Supplement, 137
- Dissociation**  
of echinoderm embryonic cells and reconstruction of larvae: DAN-SOHWKAWA, YAMANAKA & WATANABE 94, 47  
YAMANAKA, TANAKA-OHMURA & DAN-SOHWKAWA 94, 61
- cDNA**  
cloning - analysis of mouse spermatogenesis: WILLISON AND OTHERS 97 Supplement, 151  
in situ hybridization of cloned probes to determine mRNA sequences: DWORKIN-RASTL, KELLEY & DWORKIN 91, 153

**DNA**

- injection into *Xenopus* embryo:
  - TRENDELBURG AND OTHERS
  - 97 Supplement**, 243
- ligase activity in axolotl early development: SIGNORET & DAVID
- 97 Supplement**, 85
- methylation
  - expression of retroviral vectors in transgenic mice: STEWART AND OTHERS
  - 97 Supplement**, 263
- synthesis in human embryonic cornea:
  - HYLDAHL, ENGSTRÖM & SCHOFIELD
  - 98**, 71

**Dolichos biflorus**

- agglutinin used as strain-specific marker in mouse clonal analysis: SCHMIDT, WILKINSON & PONDER
- 93**, 267

**Doliolaria**

- larva of *Florometra* - ciliary band formation: LACALLI & WEST
- 96**, 303

**Double dorsal limb**

- regeneration in the axolotl: BURTON, HOLDER & JESANI
- 94**, 29

**Drosophila melanogaster**

- effect of lethal mutations and deletions on caudal metameres: WHITTLE, TIONG & SUNKEL
- 93**, 153
- embryo
  - anteroposterior pattern: FROHNHÖFER, LEHMANN & NÜSLEIN-VOLHARD
  - 97 Supplement**, 169
  - probing gene activity: JÄCKLE, SEIFERT, PREISS & ROSENBERG
  - 97 Supplement**, 157
- internal organs
  - cell lineage using *sdh* cell marker: LAWRENCE & JOHNSTON
  - 91**, 251

**Ducts**

- mammary
  - regeneration of mammary glands *in vivo*: ORMEROD & RUDLAND
  - 96**, 229

**Early somite**

- stage mouse embryos - histogenetic potential of neural plate: CHAN & TAM
- 96**, 183

**Echinoderm**

- reconstruction of bipinnariae from dissociated starfish cells: DAN-SOHWAWA, YAMANAKA & WATANABE
- 94**, 47
- YAMANAKA, TANAKA-OHMURA & DAN-SOHWAWA
- 94**, 61

**Ectopic grafts**

- rat embryonic ectoderm as renal isograft: ŠVAJGER, LEVAK-ŠVAJGER & ŠKREB
- 94**, 1

**Efferent tubules**

- postnatal maturation in the rat: FRANCAVILLA AND OTHERS
- 96**, 51

**Egg**

- anuran
  - polarity: SMITH, NEFF & MALACINSKI
  - 97 Supplement**, 45

**Chironomus**

- microinjection of anterior determinants: KALTHOFF & ELBETIEHA
- 97 Supplement**, 181

**Electrical properties**

- of chick embryo otic vesicle epithelium: REPRESA, BARBOSA & GIRALDEZ
- 97**, 125

**Electric field**

- contact guidance and direction of nerve growth: MCCAIG
- 94**, 245
- effects on fusion rate of 2-cell rabbit embryos: OZIL & MODLINSKI
- 96**, 211

**Electron microscopy**

- Xenopus* embryonic nuclei and fate of injected DNA: TRENDELBURG AND OTHERS
- 97 Supplement**, 243

**Electrophoresis**

- GPI-1 activity in mouse embryos: WEST, LEASK & GREEN
- 97**, 225

**Embryonal carcinoma**

- and inner cell mass participation in mouse chimaeras: WATERS & ROSSANT
- 98**, 99
- effects of retinoid on phenotypic properties: SHERMAN, EGLITIS & THOMAS
- 93**, 179

**Enamel organ**

- cell-matrix interactions in cultured rabbit dental cells: LESOT, SMITH, MEYER, STAUBLI & RUCH
- 96**, 195

**Endoderm**

- developmental restrictions in *Xenopus* embryos: HEASMAN, SNAPE, SMITH & WYLIE
- 97 Supplement**, 65

**Entactin**

- distribution in environment of migrating mouse neural crest cells: STERNBERG & KIMBER
- 91**, 267
- distribution in neurulating rat embryo: TUCKETT & MORRIS-KAY
- 94**, 95

**Ependyma**

- selforganization in regenerating teleost spinal cord: ANDERSON, CHOY & WAXMAN
- 96**, 1

**Epiblast**

- migration of primordial germ cells to germinal crescent in chick: GINSBURG & EYAL-GILADI
- 95**, 53

**Epidermis**

- melanophores of periodic albino mutant of *Xenopus laevis*: FUKUZAWA & IDE
- 91**, 65

**Epididymis**

postnatal maturation of efferent tubules in the rat: FRANCAVILLA AND OTHERS 96, 51

**Epithelial branching**

of mouse submandibular glands:  
NAKANISHI, SUGIURA, KISHI &  
HAYAKAWA 96, 65

**Epithelial cells**

in regenerated rat mammary glands:  
ORMEROD & RUDLAND 96, 229

**Epithelial folding**

cortical tractor model and neurulation:  
JACOBSON, OSTER, ODELL & CHENG 96, 19

**Epithelial-mesenchymal interactions**

in basement membrane zone of developing tooth: HURMERINTA, KUUSELA & THESLEFF 95, 73  
role in development of rat os penis:  
MURAKAMI & MIZUNO 92, 133  
role in growth of clavicle in embryonic chick: HALL 93, 133

**Epithelial pattern**

formation in the doliolaria larva of  
*Florometra*: LACALLI & WEST 96, 303

**Epithelial transport**

in chick otic vesicle: REPRESA, BARBOSA & GIRALDEZ 97, 125

**Epithelium**

interaction with mesenchyme during mouse otic capsule formation: MCPHEE & VAN DE WATER 97, 1  
oviduct

computer simulation of cellular pattern changes: HONDA, YAMANAKA & EGUCHI 98, 1

**Expression**

of haploid gene in mouse spermatogenesis: WILLISON AND OTHERS 97 Supplement, 151  
of insulin-like growth factors in mouse: HEATH & SHI 95, 193

**Extracellular matrix**

distribution of fibronectin, laminin and entactin in mouse embryo: STERNBERG & KIMBER 91, 267

distribution of glycoproteins in mouse embryo: TUCKETT & MORRISS-KAY 94, 95  
hyaluronidase increases cell cycle time in rat embryos: MORRISS-KAY, TUCKETT & SOLURSH 98, 59

in basement membrane zone of developing tooth: HURMERINTA, KUUSELA & THESLEFF 95, 73

pigment cell pattern formation in *Taricha*: TUCKER & ERICKSON 97, 141

role of glycosaminoglycans in anuran pigment cell migration: TUCKER 92, 145

**Extraembryonic mesoderm**

expression of insulin-like growth factors in mouse: HEATH & SHI 95, 193

**Extraembryonic tissues**

chromosomal determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123

**Eye**

development stages in axolotl: CUNY & MALACINSKI 96, 151  
human  
effects of insulin-like growth factors on DNA synthesis: HYLDAHL, ENGSTRÖM & SCHOFIELD 98, 71

**Eyeless (e)**

mutant in axolotl - retina and lens development: CUNY & MALACINSKI 96, 151

**Eyelid**

development induced by cortisone in mutant foetal mice: HARRIS & JURILOFF 91, 1

**Fascicle**

order - age related in regenerated retinotectal axons of goldfish: STUERMER 93, 1

**Fibre muscle**

types in normal, paralysed and aneural avian embryos: SOHAL & SICKLES 96, 79

**Fibre pathway**

preformed in neural tube of *Xenopus laevis*: SCOTT & BUNT 91, 181

**Fibrillar structures**

role in branching of mouse embryonic submandibular glands: NAKANISHI, SUGIURA, KISHI & HAYAKAWA 96, 65

**Fibroblasts**

whisker growth in rat induced by cultured dermal papilla cells: HORNE, JAHODA & OLIVER 97, 111

**Fibronectin**

cellular origin in basement membrane zone of developing tooth: HURMERINTA, KUUSELA & THESLEFF 95, 73

**distribution**

in environment of migrating mouse neural crest cells: STERNBERG & KIMBER 91, 267  
in neurulating rat embryo: TUCKETT & MORRISS-KAY 94, 95

**Filzkörper**

as marker for gene activity changes in *Drosophila* embryos: JÄCKLE, SEIFERT, PREISS & ROSENBERG 97 Supplement, 157

***Florometra serratissima***

ciliary band formation in the doliolaria larva: LACALLI & WEST 96, 303



**$\alpha$ -foetoprotein**

- regulation of expression in germline of mice: HAMMER AND OTHERS  
97 Supplement, 257

**Follicle**

- induction in mouse skin by rat vibrissa dermal papilla: PISANSARAKIT & MOORE 94, 113  
steroidogenesis and maturation of ovine oocytes: OSBORN, MOOR & CROSBY 98, 187

**Fourier**

- analysis of vertebral shape in chimaeric mice: O'HIGGINS, JOHNSON & McANDREW 96, 171

**Frog**

- egg  
anti-sense injections: MELTON & REBAGLIATI 97 Supplement, 211

**Fusion**

- of 2-cell rabbit embryos - effects of electric field: OZIL & MODLINSKI 96, 211

**Gap junction**

- communication during compaction of mouse embryo: GOODALL 91, 283

**Gastrulation**

- mouse  
cinemicrographic study of cell movement: NAKATSUJI, SNOW & WYLIE 96, 99  
role of ingressing superficial cells in *Ambystoma*: LUNDMARK 97, 47

**Gene**

- activity in *Drosophila* embryos: JÄCKLE, SEIFERT, PREISS & ROSENBERG 97 Supplement, 157  
expression  
in human embryos: HOPKINS, SHARPE, BARALLE & GRAHAM 97, 177  
in transgenic mice and murine stem cells: STEWART AND OTHERS 97 Supplement, 263  
regulation  
evidence for a multilevel regulation in axolotl: SIGNORET & DAVID 97 Supplement, 85  
 $\alpha$ -foetoprotein expression in germline of mice: HAMMER AND OTHERS 97 Supplement, 257

**Genetic activity**

- at albino locus in Cattanach's insertion in mouse: DEOL, TRUSLOVE & McLAREN 96, 295

**Genetic defect**

- masked by cortisone treatment in mutant, lidgap-Miller, mice: HARRIS & JURILOFF 91, 1

**Genital duct**

- postnatal maturation of efferent tubules in the rat: FRANCAVILLA AND OTHERS 96, 51

**Genital tubercle**

- role in development of rat os penis: MURAKAMI & MIZUNO 92, 133

**Germ cells**

- adhesion-related differentiation antigen XT-1: BECHTOL, HO & VAUPEL 93, 197  
chimaerism following microsurgical grafting of primitive streak: COPP, ROBERTS & POLANI 95, 95  
migration in inverted embryos of *Xenopus*: CLEINE 94, 83

**Germinal crescent**

- migration of primordial germ cells from epiblast in chick: GINSBURG & EYAL-GILADI 95, 53

**Germline**

- mouse  
regulation of  $\alpha$ -foetoprotein minigene expression: HAMMER AND OTHERS 97 Supplement, 257

**Germ plasm**

- in embryos from inverted eggs of *Xenopus*: CLEINE 94, 83

**Glucose phosphate isomerase**

- in mouse embryos - transition from oocyte- to embryo-coded: WEST, LEASK & GREEN 97, 225

**Glycoproteins**

- distribution in neurulating mouse embryo: TUCKETT & MORRIS-KAY 94, 95  
present in porcine oviduct during oocyte development: BROWN & CHENG 92, 183

**Glycosaminoglycans**

- in chondrocranium of chick embryos: GOLDSTEIN, JANKIEWICZ & DESMOND 93, 29  
role in anuran pigment cell migration: TUCKER 92, 145

**Goldfish**

- pathways of regenerated retinotectal axons: STUERMER 93, 1

**Gonad**

- development of chick embryo following quail-chick grafting: RODEMER, IHMER & WARTENBERG 98, 269  
of chick embryo - analysis of cytosolic proteins: SAMSEL, LORBER, PETIT & WENIGER 94, 221

**Graft**

- of anterior endoderm reduces sterility in inverted *Xenopus* embryos: CLEINE 94, 83
- of Hensen's node to chick limb bud: HORNBRUCH & WOLPERT 94, 257
- of prothoracic leg to metathorax in *Tenebrio*: FRENCH 91, 227

**Growth**

- of mouse half embryos is size dependent: RANDS 98, 209

**Growth cone**

- sensory nerve routes in chick wings without motor innervation: SWANSON & LEWIS 95, 37

**Growth factors**

- effects on DNA synthesis in human embryonic cornea: HYLDAHL, ENGSTRÖM & SCHOFIELD 98, 71
- expression by murine teratocarcinomas: HEATH & SHI 95, 193
- secreted by embryonic chick wing bud tissues *in vitro*: BELL 93, 257

**Gynogenones**

- chromosomal determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123

**Hair**

- growth in rat induced by cultured dermal papilla cells: HORNE, JAHODA & OLIVER 97, 111
- induction in mouse skin by rat vibrissa dermal papilla: PISANSARAKIT & MOORE 94, 113

**Half embryo**

- size regulation in mouse: RANDS 98, 209

**Handedness**

- of supernumerary limbs after chick wing bud rotation: JAVOIS & ITEN 91, 135

**Haploid**

- blastocysts of mouse - chromosome analysis: SCHNEBELEN & KAUFMAN 98, 167
- gene expression in mouse spermatogenesis: WILLISON AND OTHERS 97 Supplement, 151

**Heart**

- distribution of glycoproteins in mouse embryo: TUCKETT & MORRISS-KAY 94, 95

**Heat shock**

- disruption of segmentation in locust embryo: MEE & FRENCH 96, 245, 267

**Hensen's node**

- positional signalling when grafted to chick limb bud: HORNBRUCH & WOLPERT 94, 257

**Histochemical**

- analysis of fate of brachial muscles in chick embryo: BUTLER, CAUWENBERGS & COSMOS 95, 147
- and autoradiographic study of rat visceral yolk sac: SOBIS, GOEBELS & VANDEPUTTE 97, 169
- and ultrastructural observations on early foetal pig testis: VAN VORSTENBOSCH, VAN ROSSUM-KOK, COLENBRANDER & WENSING 95, 261
- estimation of primordial pool size in mouse liver: WAREHAM & WILLIAMS 95, 239

**Histogenesis**

- ocular migration and maturation of *Xenopus* retinotectal system: GRANT & KEATING 92, 43

**Histone H4 mRNA**

- levels in *Xenopus* embryonic cells: ATSUCHI, TASHIRO, YAMANA & SHIOKAWA 98, 175

**Homoeotic transformation**

- in bithorax complex in *Drosophila*: WHITTLE, TIONG & SUNKEL 93, 153

**Homozygous**

- lethal mutation on chromosome 2 of mouse - *Small eyes*: HOGAN AND OTHERS 97, 95

**Horseradish peroxidase (HRP)**

- in study of axonic projections of chick trigeminal neurones: HISCOCK & STRAZNICKY 93, 281

**Human****cornea**

- effects of insulin-like growth factors on DNA synthesis: HYLDAHL, ENGSTRÖM & SCHOFIELD 98, 71
- epithelial-specific cell surface antigen: LANGER, SUNDARRAJ & SUNDARRAJ 94, 163

**embryo**

- distribution of apolipoprotein gene transcripts: HOPKINS, SHARPE, BARALLE & GRAHAM 97, 177

**Hyaluronate**

- in chondrocranium of chick embryos: GOLDSTEIN, JANKIEWICZ & DESMOND 93, 29
- role of glycosaminoglycans in anuran pigment cell migration: TUCKER 92, 145

**Hyaluronidase**

- effect on tissue organization and cell cycle time in rat embryos: MORRISS-KAY, TUCKETT & SOLURSH 98, 59

**Hybridization**

- of cloned cDNA probes to determine localization of mRNA sequences: DWORKIN-RASTL, KELLEY & DWORKIN 91, 153

**Hydra**

- bud induction in *H. attenuata* by 5-azacytidine: DE PETROCELLIS, MAHARAJAN, DE PETROCELLIS & MINEI 93, 105

**Immunocytochemistry**

- of mouse embryonic basement membrane and neural crest cells: STERNBERG & KIMBER 98, 251
- of regenerated rat mammary glands: ORMEROD & RUDLAND 96, 229

**Immunohistochemistry**

- origin of pituitary adrenocorticotropes in *Xenopus*: EAGLESON, JENKS & VAN OVERBEEKE 95, 1

**Implantation**

- of cultured vibrissa dermal papilla cells in rat: HORNE, JAHODA & OLIVER 97, 111

**Imprinting**

- chromosomal determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123
- parental origin effects in mice: CATTANACH 97 Supplement, 137

**Inactivation centre**

- effect on inactivation of X-linked gene in mouse: LYON AND OTHERS 97, 75

**Induction**

- anteroposterior pattern in *Drosophila* embryo: FROHNHÖFER, LEHMANN & NÜSSLEIN-VOLHARD 97 Supplement, 169

**Ingression**

- role of superficial cells in *Ambystoma* gastrulation: LUNDMARK 97, 47

**Inner cell mass**

- mouse
  - from haploid blastocysts - chromosome analysis: SCHNEBELN & KAUFMAN 98, 167
- participation in mouse chimaera development: WATERS & ROSSANT 98, 99

**Innervation**

- inappropriate
  - fate of brachial muscles of chick embryo: BUTLER, CAUWENBERGS & COSMOS 95, 147
- of muscle in normal, paralysed and aneural avian embryos: SOHAL & SICKLES 96, 79

**Insect**

- embryo
  - disruption of segmentation by heat shock: MEE & FRENCH 96, 245, 267
- interaction between leg and surrounding thorax in *Tenebrio*: FRENCH 91, 227
- microfilament patterns in polytrophic and telotrophic ovarioles: GUTZEIT & HUEBNER 93, 291

***Tenebrio molitor***

- regeneration in anterior-posterior axis: FRENCH & ROWLANDS 98, 137

***In situ***

- localization of specific mRNA sequences in *Xenopus* embryos: DWORKIN-RASTL, KELLEY & DWORKIN 91, 153

**Insulin**

- like growth factors - effect on DNA synthesis in cornea: HYLDAHL, ENGSTRÖM & SCHOFIELD 98, 71
- like growth factors in mouse: HEATH & SHI 95, 193
- transferrin requirement in chick embryo cultured mesoderm cells: SANDERS 95, 81

**Interaction**

- between cell and matrix in cultured rabbit dental cells: LESOT, SMITH, MEYER, STAUBLI & RUCH 96, 195
- between cells and histone H4 mRNA levels in *Xenopus* embryo: ATSUCHI, TASHIRO, YAMANA & SHIOKAWA 98, 175
- between tissues in mouse otic capsule formation: MCPHEE & VAN DE WATER 97, 1
- nucleocytoplasmic in mouse embryo: MCGRATH & SOLTER 97 Supplement, 277

**Intercalation**

- polarity and pattern discontinuity in axolotl limbs: MUNEOKA, HOLLER-DINSMORE & BRYANT 93, 51

**Intercellular clefts**

- in pathways in neural tube of *Xenopus laevis*: SCOTT & BUNT 91, 181

**Interdependence**

- of musculoskeletal characters in mouse mandibular arch: KAY 98, 123

**Interdigital tissue**

- chondrogenesis induced by removal of ectoderm in chick leg bud: HURLE & GAÑAN 94, 231

**Intermediate filaments**

- in *Xenopus* CNS, skin and notochord: GODSAVE, ANDERTON & WYLIE 97, 201

**Interspecific**

- transplantation
  - nucleocytoplasmic interactions in mouse embryo: MCGRATH & SOLTER 97 Supplement, 277

**Inverted embryos**

- of *Xenopus* - reduction in sterility by grafting: CLEINE 94, 83

**In vitro**

- assay for neural crest cell migration through somites: GUILLORY & BRONNER-FRASER 98, 85
- differentiation of mouse gonads: MACKAY & SMITH 97, 189
- following destruction of blastomeres in marsupial: SELWOOD 92, 71

**Ion**

- transport across otic vesicle epithelium in chick: REPRESA, BARBOSA & GIRALDEZ 97, 125

**Iridophore**

- in axanthic phenotype of axolotl: FROST, EPP & ROBINSON 95, 117
- in pigmentary system of albino axolotls: FROST, EPP & ROBINSON 92, 255

**Ischaemia**

- effects of temporary ischaemia on rat muscle spindles: DIWAN & MILBURN 92, 223

**Kagome**

- pattern - computer simulation of avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1

**Kidney capsule**

- rat embryonic ectoderm as renal isograft: ŠVAJGER, LEVAK-ŠVAJGER & ŠKREB 94, 1

**Krüppel (Kr)**

- mutation used to probe gene activity in *Drosophila* embryo: JÄCKLE, SEIFERT, PREISS & ROSENBERG 97 Supplement, 157

**Laminin**

- distribution in environment of migrating mouse neural crest cells: STERNBERG & KIMBER 91, 267
- distribution in neurulating rat embryo: TUCKETT & MORRIS-KAY 94, 95

**Lampbrush chromosomes**

- effect of microinjection of antibodies into amphibian oocytes: SCHEER 97 Supplement, 223

**Laser microbeam**

- used to study the early development of *Caenorhabditis*: SCHIERENBERG 97 Supplement, 31

**Lectins**

- used to demonstrate basal laminar thinning in chick lung: GALLAGHER 94, 173

**Leg**

- interaction with surrounding thorax in *Tenebrio*: FRENCH 91, 227

**Leg bud**

- interdigital tissue chondrogenesis induced in chick: HURLE & GAÑAN 94, 231

**Lens**

- and retina development in eyeless axolotl mutants: CUNY & MALACINSKI 96, 151
- morphogenesis in aphakia mutant mice: WEBSTER, ZWAAN & COOPER 92, 85
- placode differentiation in mouse - *Small eyes* mutation: HOGAN AND OTHERS 97, 95

**Lethal**

- mutation, *Small eyes*, in mouse embryo: HOGAN AND OTHERS 97, 95

**Lethality**

- noncomplementation in mice: CATTANACH 97 Supplement, 137

**Leydig cells**

- in early foetal pig testis: VAN VORSTENBOSCH, VAN ROSSUM-KOK, COLENBRANDER & WENSING 95, 261

**Lidgap-Miller**

- mutant foetal mice - eyelid development and fusion: HARRIS & JURILOFF 91, 1

**Light microscopy**

- Xenopus* embryonic nuclei and fate of injected DNA: TREDELENBURG AND OTHERS 97 Supplement, 243

**Limb**

- axolotl
  - regeneration after replacing skin with head skin: WIGMORE & HOLDER 98, 237
  - regeneration of double dorsal and double ventral limbs: BURTON, HOLDER & JESANI 94, 29

**chick**

- mesenchymal diversification: COTTRILL, SHARPE & WOLFERT 94, 267

**development**

- and regeneration in the axolotl - effects of vitamin A: SCADDING & MADEN 91, 19
- and regeneration in *Xenopus laevis* - effects of vitamin A: SCADDING & MADEN 91, 35
- interdigital tissue chondrogenesis in chick leg bud: HURLE & GAÑAN 94, 231
- in *Xenopus* - effect of local application of vitamin A: SCADDING & MADEN 91, 55

**innervation**

- sensory nerve routes in chick wing buds: SWANSON & LEWIS 95, 37

**regeneration**

- from half lower arms in axolotl: WIGMORE 95, 247

- pattern discontinuity, polarity and intercalation in axolotl: MUNEOKA, HOLLER-DINSMORE & BRYANT 93, 51
- Limb bud**  
 chick  
 characterization of mitogens secreted *in vitro*: BELL 93, 257  
 retinoic acid-binding protein: MADEN & SUMMERBELL 97, 239  
 positional signalling by Hensen's node grafts: HORNBRUCH & WOLPERT 94, 257
- Liver**  
 mouse  
 estimation of primordial pool size using X-linked enzyme: WAREHAM & WILLIAMS 95, 239  
 necrosis  
 in chick embryos and calcium deficiency: ONO & TUAN 92, 207
- Location**  
 of segmental abnormalities in locust embryo: MEE & FRENCH 96, 245
- Locust (See *Schistocerca gregaria*)**
- Lung**  
 chick  
 basal laminar thinning demonstrated by lectin probes: GALLAGHER 94, 173  
 branching morphogenesis studied with cationic dyes: GALLAGHER 94, 189
- Mammal**  
 neural crest migration in postimplantation rat chimaeras: TAN & MORRIS-KAY 98, 21
- Mammary glands**  
 regeneration *in vivo* from isolated ducts: ORMEROD & RUDLAND 96, 229
- Mandibular arch**  
 phenotypic linkage of musculoskeletal characters in mouse: KAY 98, 123
- Marsupial**  
 cleavage *in vitro* following destruction of some blastomeres: SELWOOD 92, 71
- Maternal**  
 chromosomes - determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123  
 genome contribution in mice: CATTANACH 97 Supplement, 137  
 mRNA as determinant of ascidian tissue-specific proteins: JEFFERY, BATES, BEACH & TOMLINSON 97 Supplement, 1
- Meiosis**  
 protein requirements for germinal vesicle breakdown in oocytes: MOOR & CROSBY 94, 207
- Melanophore**  
 in axanthic phenotype of axolotl: FROST, EPP & ROBINSON 95, 117  
 in pigmentary system of albino axolotls: FROST, EPP & ROBINSON 92, 255  
 of periodic albino mutant of *Xenopus laevis*: FUKUZAWA & IDE 91, 65
- Membrane bone**  
 growth in clavicle of embryonic chick: HALL 93, 133
- Mesencephalic trigeminal neurone**  
 formation of axonal projections in chick embryo: HISCOCK & STRAZNICKY 93, 281
- Mesenchymal cells**  
 distribution during mouse secondary palate closure: BRINKLEY & BOOKSTEIN 96, 111
- Mesenchymal ridges**  
 role in branching of mouse embryonic submandibular glands: NAKANISHI, SUGIURA, KISHI & HAYAKAWA 96, 65
- Mesenchyme**  
 hyaluronidase increases cell cycle time in rat embryos: MORRIS-KAY, TUCKETT & SOLURSH 98, 59  
 interaction with epithelium during mouse otic capsule formation: MCPHEE & VAN DE WATER 97, 1  
 pattern formation in chick limbs: COTTRILL, SHARPE & WOLPERT 94, 267
- Mesoderm**  
 transferrin requirement in chick embryo cultured cells: SANDERS 95, 81
- Mesonephros**  
 gonadal development in chick following microsurgery: RODEMER, IHMER & WARTENBERG 98, 269
- Metameric pattern**  
 of somites in mouse embryo: TAM 92, 269
- Microfilament**  
 and polarity in mouse embryos: FLEMING, PICKERING, QASIM & MARO 95, 169  
 asymmetric movement of cytoplasm in *Caenorhabditis* zygote: STROME 97 Supplement, 15  
 parthenogenesis and cytoskeletal organization in ageing mouse eggs: WEBB, HOWLETT & MARO 95, 131  
 patterns in nurse cells of insect ovarioles: GUTZEIT & HUEBNER 93, 291  
 role in polar body formation in mouse oocyte: MARO, JOHNSON, WEBB & FLACH 92, 11

**Microinjection**

- of anterior determinants in *Chironomus* eggs: KALTHOFF & ELBETIEHA 97 Supplement, 181
- of antibodies into amphibian oocytes: SCHEER 97 Supplement, 223
- of anti-sense RNA in frog eggs: MELTON & REBAGLIATI 97 Supplement, 211
- of DNA into *Xenopus* embryos: TREDELENBURG AND OTHERS 97 Supplement, 243

**Microphthalmic (mi)**

- mutant in axolotl - retina and lens development: CUNY & MALACINSKI 96, 151

**Microsurgery**

- grafting of posterior primitive streak cells *in vitro* in mouse: COPP, ROBERTS & POLANI 95, 95

**Microtubule**

- organizing centre
  - during polar body formation in mouse oocyte: MARO, JOHNSON, WEBB & FLACH 92, 11
- parthenogenesis and cytoskeletal organization in ageing mouse eggs: WEBB, HOWLETT & MARO 95, 131

**Microtubules**

- in overfed cells of *Dilepus anser*: GOLINSKA 93, 85

**Microvilli**

- and polarity in mouse embryos: FLEMING, PICKERING, QASIM & MARO 95, 169

**Migration**

- of chick primordial germ cells from epiblast to germinal crescent: GINSBURG & EYAL-GILADI 95, 53
- of neural crest cells through somites - an *in vitro* assay: GUILLORY & BRONNER-FRASER 98, 85

**Model**

- cortical tractor for epithelial folding: JACOBSON, OSTER, ODELL & CHENG 96, 19
- for pattern formation in insect thoracic segment: FRENCH & ROWLANDS 98, 137
- for specification of somite pattern in amphibians: MEE & FRENCH 96, 245

**Monoclonal antibodies**

- in study of adhesion-related differentiation antigen XT-1: BECHTOL, HO & VAUPEL 93, 197
- intermediate filaments in *Xenopus* CNS, skin and notochord: GODSAVE, ANDERTON & WYLIE 97, 201
- used to study organization of *Xenopus* egg proteins: SMITH, NEFF & MALACINSKI 97 Supplement, 45

**Monoclonal antibody**

- effect on gap junctional communication in mouse early embryo: GOODALL 91, 283
- to corneal epithelial-specific cell surface antigen: LANGER, SUNDARRAJ & SUNDARRAJ 94, 163

**Monolayer**

- culture of *Dictyostelium*: DOMINOV & TOWN 96, 131

**Morphogenetic movements**

- origin of pituitary adrenocorticotropes in *Xenopus*: EAGLESON, JENKS & VAN OVERBEEKE 95, 1

**Morula**

- mouse
  - gap junctional communication during compaction: GOODALL 91, 283

**Mosaics**

- gene activity at albino locus in Cattanaach's insertion: DEOL, TRUSLOVE & McLAREN 96, 295

**Motoneurone**

- sensory nerve routes in chick wing buds: SWANSON & LEWIS 95, 37

**Mouse**

- adhesion-related differentiation antigen XT-1: BECHTOL, HO & VAUPEL 93, 197
- Cattanaach's insertion
  - genetic activity at the albino locus: DEOL, TRUSLOVE & McLAREN 96, 295
- cellular origin of fibronectin in developing tooth: HURMERINTA, KUUSELA & THESLEFF 95, 73
- chimaera
  - clonal analysis of patterns in aortic endothelium: SCHMIDT, WILKINSON & PONDER 93, 267
  - effect of retinoic acid pretreatment on development: WATERS & ROSSANT 98, 99
  - non-random spatial arrangement of clone sizes in retinal epithelium: SCHMIDT, WILKINSON & PONDER 91, 197

**egg**

- parthenogenesis and cytoskeletal organization: WEBB, HOWLETT & MARO 95, 131

**embryo**

- chimaerism of primordial cells after primitive streak cell grafting: COPP, ROBERTS & POLANI 95, 95
- chromosomal determinants of development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123



- cinemicrographic study of cell  
 movement: NAKATSUJI, SNOW &  
 WYLIE 96, 99
- cortical microfilaments and polarity:  
 FLEMING, PICKERING, QASIM &  
 MARO 95, 169
- development of neural tube basal  
 lamina: MARTINS-GREEN & ERICKSON  
 98, 219
- distribution of fibronectin, laminin and  
 entactin around neural crest:  
 STERNBERG & KIMBER 91, 267
- expression of insulin-like growth factors:  
 HEATH & SHI 95, 193
- gap junctional communication during  
 compaction: GOODALL 91, 283
- histogenetic potential of neural plate  
 from early-somite stage: CHAN &  
 TAM 96, 183
- neural crest cells and basement  
 membrane: STERNBERG & KIMBER  
 98, 251
- nucleocytoplasmic interactions: McGRATH  
 & SOLTER 97 Supplement, 277
- parental origin effects: CATTANACH  
 97 Supplement, 137
- pattern of prospective somites in  
 presomitic mesoderm: TAM 92, 269
- phenotypic linkage in musculoskeletal  
 characters: KAY 98, 123
- potential role for spectrin in neurulation:  
 SADLER, BURRIDGE & YONKER 94, 73
- role for cytoplasmic determinants in  
 early development: JOHNSON,  
 CHISHOLM, FLEMING & HOULISTON: 97  
 Supplement, 97
- role of cell adhesion in polarization:  
 JOHNSON, MARO & TAKEICHI 93, 239
- size regulation in quadruple aggregates:  
 Rands 94, 139
- Small eyes* mutation affects lens and  
 nasal placodes: HOGAN AND OTHERS  
 97, 95
- submandibular glands - SEM  
 observation during initial branching:  
 NAKANISHI, SUGIURA, KISHI &  
 HAYAKAWA 96, 65
- tetrasomy 16 - compared with trisomy:  
 DEBROT & EPSTEIN 91, 169
- timing of compaction: LEVY, JOHNSON,  
 GOODALL & MARO 95, 213
- tissue interactions guiding otic capsule  
 formation: McPHEE & VAN DE  
 WATER 97, 1
- transition from embryo- to oocyte-coded  
 GPI-1 activity: WEST, LEASK &  
 GREEN 97, 225
- eye  
 abnormal accumulation of sulphated  
 materials in aphakia mutants:  
 WEBSTER, ZWAAN & COOPER 92, 85
- genetics  
 isolation of *t*-complex polypeptide-1  
 gene: WILLISON AND OTHERS  
 97 Supplement, 151
- germline  
 regulation of  $\alpha$ -foetoprotein minigene  
 expression: HAMMER AND OTHERS  
 97 Supplement, 257
- gonad  
 differentiation *in vitro*: MACKAY &  
 SMITH 97, 189
- half embryos  
 size regulation: Rands 98, 209
- inner cell mass  
 from haploid blastocysts - chromosome  
 analysis: SCHNEBELEN & KAUFMAN  
 98, 167
- liver  
 estimation of primordial pool size using  
 X-linked enzyme: WAREHAM &  
 WILLIAMS 95, 239
- mutant, *lidgap*-Miller  
 eyelid development and fusion induced  
 by cortisone treatment: HARRIS &  
 JURILOFF 91, 1
- oocyte  
 chromosome-mediated differentiation of  
 cytoplasm and plasma membrane: VAN  
 BLERKOM & BELL 93, 213
- polar body formation - various  
 interactions: MARO, JOHNSON, WEBB &  
 FLACH 92, 11
- retina  
*rd*s gene expression in chimaeras:  
 SANYAL, DEES & ZEILMAKER 98, 111
- secondary palate  
 effect of reducing ATP levels on  
 reorientation: BULLEIT & ZIMMERMAN  
 93, 73
- mesenchymal cell distribution during  
 closure: BRINKLEY & BOOKSTEIN  
 96, 111
- skin  
 induction of hair follicles by rat vibrissa  
 dermal papilla: FISANSARAKIT &  
 MOORE 94, 113
- stem cells  
 expression of retroviral vectors: STEWART  
 AND OTHERS 97 Supplement, 263
- vertebral shape  
 clonal theory - reinvestigation using  
 Fourier analysis: O'HIGGINS, JOHNSON &  
 MCANDREW 96, 171

- X-linked gene  
lack of inactivation when separated from  
centre: LYON AND OTHERS 97, 75
- Mouthparts**  
in overfed cells of *Dileptus anser*:  
GOLINSKA 93, 85
- Movement**  
and stability of mRNA in *Xenopus* oocytes  
and embryos: COLMAN & DRUMMOND  
97 Supplement, 197  
asymmetric, of cytoplasm in *Caenorhabditis*  
zygote: STROME 97 Supplement, 15
- Muscle**  
fibre types in normal, paralysed and  
aneural avian embryos: SOHAL &  
SICKLES 96, 79  
gene activation by induction: GURDON &  
FAIRMAN 97 Supplement, 75  
in regeneration of axolotl double dorsal  
and double ventral limbs: BURTON,  
HOLDER & JESANI 94, 29  
-nerve interaction in development of chick  
brachial muscles: BUTLER, CAUWENBERGS  
& COSMOS 95, 147  
regeneration after replacing axolotl limb  
skin with head skin: WIGMORE &  
HOLDER 98, 237  
regeneration from half lower arms in  
axolotl: WIGMORE 95, 247
- Muscle spindles**  
in rat - effect of temporary ischaemia:  
DIWAN & MILBURN 92, 223
- Mutant**  
axanthic  
of axolotl - analysis of pigmentary  
system: FROST, EPP & ROBINSON  
95, 117  
eyeless (*e*)  
axolotl retina and lens development:  
CUNY & MALACINSKI 96, 151  
microphthalmic (*mi*)  
axolotl retina and lens development:  
CUNY & MALACINSKI 96, 151  
renal insufficiency (*r*)  
axolotl retina and lens development:  
CUNY & MALACINSKI 96, 151
- Mutation**  
aphakia in mice - abnormal accumulation  
of sulphated materials: WEBSTER, ZWAAN  
& COOPER 92, 85  
gene activity at albino locus in *Cattanach's*  
insertion: DEOL, TRUSLOVE & McLAREN  
96, 295  
in bithorax complex  
effect of lethal mutations and deletions  
on caudal metameres: WHITTLE, TIONG  
& SUNKEL 93, 153
- Krüppel* (*Kr*)  
used to probe gene activity in *Drosophila*  
embryo: JÄCKLE, SEIFERT, PREISS &  
ROSENBERG 97 Supplement, 157  
lidgap-Miller - eyelid development after  
cortisone treatment: HARRIS & JURILOFF  
91, 1  
periodic albino in *Xenopus laevis*:  
FUKUZAWA & IDE 91, 65  
*Small eyes* (*Sey*)  
a homozygous lethal on chromosome 2  
of mouse: HOGAN AND OTHERS 97, 95  
*T<sup>hp</sup>*  
nucleocytoplasmic interactions in mouse  
embryo: McGRATH & SOLTER  
97 Supplement, 277
- Myoblast**  
influence on orientation of somitic  
myoblasts in *Xenopus*: McCAIG 93, 121
- Myofibres**  
of rat skeletal muscle after  
reautotransplantation of muscle:  
GULATI 92, 1
- Myosin-ATPase profiles**  
fate of chick brachial muscles innervated  
by inappropriate nerves: BUTLER,  
CAUWENBERGS & COSMOS 95, 147
- Nasal**  
placode differentiation in mouse - *Small*  
*eyes* mutation: HOGAN AND OTHERS  
97, 95
- Nematode**  
*Caenorhabditis*  
developmental strategies in early  
embryogenesis: SCHIERENBERG  
97 Supplement, 31
- neo<sup>R</sup> gene**  
expression in murine stem cells and  
transgenic mice: STEWART AND OTHERS  
97 Supplement, 263
- Nerve**  
fibre  
shifting connections in *Rana* retinotectal  
system: FRASER & HUNT 94, 149  
growth  
influence of electric fields and contact  
guidance on direction: McCAIG  
94, 245  
section  
visual projection in *Xenopus* following  
regeneration: WILLSHAW &  
GAZE 94, 121  
segmental  
pathway selection by developing  
peripheral axons in axolotl: FREEMAN &  
DAVEY 91, 117

**Neural activity**

- blockage by TTX - effect on retinotectal projection in *Xenopus*: KEATING, GRANT, DAWES & NANCHAHAL 91, 101

**Neural crest**

- cell migration in postimplantation rat chimaeras: TAN & MORRISS-KAY 98, 21  
 cells and basement membrane in mouse embryo: STERNBERG & KIMBER 98, 251  
 development of neural tube basal lamina in mouse embryo: MARTINS-GREEN & ERICKSON 98, 219  
 distribution of fibronectin, laminin and entactin in mouse embryo: STERNBERG & KIMBER 91, 267  
 distribution of glycoproteins in mouse embryo: TUCKETT & MORRISS-KAY 94, 95  
 histogenetic potential of neural plate from mouse embryos: CHAN & TAM 96, 183  
*in vitro* assay for migration through somites: GUILLORY & BRONNER-FRASER 98, 85  
 pigment cell pattern formation in *Taricha*: TUCKER & ERICKSON 97, 141  
 role of glycosaminoglycans in anuran pigment cell migration: TUCKER 92, 145

**Neural outgrowth**

- in chick embryo - interaction between neurite and somite cells: STERN, SISODIYA & KEYNES 91, 209

**Neural plate**

- histogenetic potential of cells from mouse embryos: CHAN & TAM 96, 183

**Neural ridge**

- origin of pituitary adrenocorticotropes in *Xenopus*: EAGLESON, JENKS & VAN OVERBEEKE 95, 1

**Neural tube**

- distribution of glycoproteins in mouse embryo: TUCKETT & MORRISS-KAY 94, 95  
 preformed pathways in *Xenopus laevis*: SCOTT & BUNT 91, 181

**Neurocoel**

- intrinsic and extrinsic factors in occlusion in chick: DESMOND & SCHOENWOLF 97, 25

**Neurocranium**

- development during chondrogenesis in chick embryo: GOLDSTEIN, JANKIEWICZ & DESMOND 93, 29

**Neurone**

- death during axonal projections in chick embryo: HISCOCK & STRAZNICKY 93, 281

**Neurulation**

- and cortical tractor model for epithelial folding: JACOBSON, OSTER, ODELL & CHENG 96, 19

- hyaluronidase increases cell cycle time in rat embryos: MORRISS-KAY, TUCKETT & SOLURSH 98, 59

- in mouse embryo: MARTINS-GREEN & ERICKSON 98, 219

- in rat embryos - effects of cytoskeletal inhibitors on neural folds: SMEDLEY & STANISSTREET 93, 167

- potential role for spectrin in mouse embryo: SADLER, BURRIDGE & YONKER 94, 73

**Newt**

- pigment cell pattern formation: TUCKER & ERICKSON 97, 141

**Nocodazole**

- effect on development of fully grown mouse oocyte: VAN BLERKOM & BELL 93, 213

- effects on neural folds in rat embryo: SMEDLEY & STANISSTREET 93, 167

**Noncomplementation lethality**

- parental origin effects in mice: CATTANACH 97 Supplement, 137

**Northern blotting**

- histone H4 mRNA levels in *Xenopus* embryonic cells: ATSUCHI, TASHIRO, YAMANA & SHIOKAWA 98, 175

**Notochord**

- influence on orientation of somitic myoblasts in *Xenopus*: MCCAIG 93, 121  
 intermediate filaments in *Xenopus*: GODSAVE, ANDERTON & WYLIE 97, 201

**NRI cells**

- effects of retinol on phenotypic properties: SHERMAN, EGLITIS & THOMAS 93, 179

**Nuclear maturation**

- in fully grown mouse oocyte - effect of nocodazole: VAN BLERKOM & BELL 93, 213

- of ovine oocytes and steroids: OSBORN, MOOR & CROSBY 98, 187

**Nuclear transfer**

- nucleocytoplasmic interactions in mouse embryo: McGRATH & SOLTER 97 Supplement, 277

**Nuclear transplantation**

- chromosomal determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123

- to trace cell lineage of *Drosophila* internal organs: LAWRENCE & JOHNSTON 91, 251

**Nucleocytoplasmic interaction**

- in mouse embryo: McGRATH & SOLTER 97 Supplement, 277

**Nucleus**

- amphibian oocytes
  - injection of antibodies: SCHEER  
97 Supplement, 223
- maternal mRNA in ascidian development:
  - JEFFERY, BATES, BEACH & TOMLINSON  
97 Supplement, 1
- Xenopus* embryo
  - structure after DNA injection:
    - TRENDELENBURG AND OTHERS  
97 Supplement, 243

**nude**

- mutation in mouse - induction of hair  
follicles: PISANSARAKIT & MOORE 94, 113

**Nurse cells**

- microfilament patterns in different insect  
ovaries: GUTZEIT & HUEBNER 93, 291

**Occlusion**

- role of intrinsic and extrinsic factors in  
chick embryo: DESMOND &  
SCHOENWOLF 97, 25

**Odontogenesis**

- cellular origin of fibronectin in basement  
membrane zone: HURMERINTA, KUUSELA  
& THESLEFF 95, 73

**Oocyte**

- amphibia
  - injection of antibodies: SCHEER  
97 Supplement, 223
- axolotl
  - changes in patterns of protein synthesis  
during maturation: GAUTIER &  
TENCER 92, 103
- frog
  - anti-sense injections: MELTON &  
REBAGLIATI 97 Supplement, 211
- mouse
  - polar body formation - various  
interactions: MARO, JOHNSON, WEBB &  
FLACH 92, 11
- ovine
  - protein requirements for germinal  
vesicle breakdown: MOOR & CROSBY  
94, 207
- pig
  - changes in composition of zona  
pellucida: BROWN & CHENG 92, 183
- Xenopus*
  - stability and movement of mRNA:
    - COLMAN & DRUMMOND  
97 Supplement, 197

**Oogenesis**

- in different insects - comparison of  
microfilament patterns: GUTZEIT &  
HUEBNER 93, 291

- organization of *Xenopus* egg proteins:
  - SMITH, NEFF & MALACINSKI  
97 Supplement, 45

**Optic tectum**

- ocular migration and maturation of  
*Xenopus* retinotectal system: GRANT &  
KEATING 92, 43
- visual projection in *Xenopus* after nerve  
section: WILLSHAW & GAZE 94, 121

**Organ culture**

- of rat visceral yolk sac: SOBIS, GOEBELS &  
VANDEPUTTE 97, 169
- used to study growth in clavicle of  
embryonic chick: HALL 93, 133

**Organizing centre**

- microtubules
  - parthenogenesis and cytoskeletal  
organization in ageing mouse eggs:
    - WEBB, HOWLETT & MARO 95, 131

**Orientation**

- of somitic myoblasts in *Xenopus*: MCCAIG  
93, 121

**Ornithine carbamoyltransferase**

- use in estimation of primordial pool size in  
mouse liver: WAREHAM & WILLIAMS  
95, 239
- X-linked gene separated from inactivation  
centre: LYON AND OTHERS 97, 75

**Os penis**

- development of skeletal tissues in rat:
  - MURAKAMI & MIZUNO 92, 133

**Osteogenesis**

- role in development of rat os penis:
  - MURAKAMI & MIZUNO 92, 133

**Otic vesicle**

- electrical properties of epithelium in chick  
embryo: REPRESA, BARBOSA & GIRALDEZ  
97, 125

**Otocyst**

- epithelial-mesenchymal tissue interactions  
in mouse: MCPHEE & VAN DE WATER 97, 1

**Outer segments**

- of mouse retina - *rd*s gene expression in  
chimaeras: SANYAL, DEES & ZEILMAKER  
98, 111

**Ovary**

- mouse
  - differentiation *in vitro*: MACKAY &  
SMITH 97, 189

**Overfeeding**

- effect on microtubular organelles of  
*Dileptus*: GOLINSKA 93, 85

**Oviduct**

## avian

- computer simulation of cellular pattern changes: HONDA, YAMANAKA & EGUCHI 98, 1
- glycoproteins present in pig during oocyte development: BROWN & CHENG 92, 183

**Ovine**

## oocyte

- protein requirements for germinal vesicle breakdown: MOOR & CROSBY 94, 207
- steroids and nuclear and cytoplasmic maturation: OSBORN, MOOR & CROSBY 98, 187

**Palate**

## secondary

- effect of reducing ATP levels on reorientation: BULLEIT & ZIMMERMAN 93, 73

**Palate closure**

- in mouse - distribution of mesenchymal cells: BRINKLEY & BOOKSTEIN 96, 111

**Papaverine**

- effects on neural folds in rat embryo: SMEDLEY & STANISSTREET 93, 167

**Paralysis**

- role of movement in growth in clavicle of embryonic chick: HALL 93, 133

**Parental**

- genome contribution in mice: CATTANACH 97 Supplement, 137

**Parthenogenesis**

- and cytoskeletal organization in ageing mouse eggs: WEBB, HOWLETT & MARO 95, 131

**Parthenogenones**

- chromosomal determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123
- nucleocytoplasmic interactions in mouse embryo: McGRATH & SOLTER 97 Supplement, 277

**Paternal**

- chromosomes - determinants of mouse development: SURANI, REIK, NORRIS & BARTON 97 Supplement, 123

**Pathfinding**

- in chick embryo - interaction between neurite and somite cells: STERN, SISODIYA & KEYNES 91, 209

**Pathway mistakes**

- in retinotectal axons of goldfish: STUERMER 93, 1

**Pathway selection**

- by developing peripheral axons in the axolotl: FREEMAN & DAVEY 91, 117

**Pathways**

- performed in neural tube of *Xenopus laevis*: SCOTT & BUNT 91, 181

**Pattern**

- anteroposterior pattern in *Drosophila* embryo: FROHNHÖFER, LEHMANN & NÜSSLEIN-VOLHARD 97 Supplement, 169
- of microtubular organelles in overfed cells of *Dileptus*: GOLINSKA 93, 85

**Pattern discontinuity**

- polarity and directional intercalation in axolotl limbs: MUNEOKA, HOLLER-DINSMORE & BRYANT 93, 51

**Pattern formation**

- computer simulation of maturation of avian oviduct epithelium: HONDA, YAMANAKA & EGUCHI 98, 1
- during regeneration in anteroposterior axis of *Tenebrio*: FRENCH & ROWLANDS 98, 137
- following rotation of chick wing bud: JAVOIS & ITEN 91, 135
- in 8-cell composite embryos of *Xenopus laevis*: KAGEURA & YAMANA 91, 79
- in chick embryo - interaction between neurite and somite cells: STERN, SISODIYA & KEYNES 91, 209
- in chick mesenchyme: COTTRILL, SHARPE & WOLPERT 94, 267
- in muscle during regeneration in axolotl: WIGMORE & HOLDER 98, 237
- in pigment cells of newt: TUCKER & ERICKSON 97, 141
- in prospective somites in mouse presomitic mesoderm: TAM 92, 269
- in retinotectal axons of goldfish: STUERMER 93, 1
- regeneration from half lower arms in axolotl: WIGMORE 95, 247
- regeneration of axolotl double dorsal and double ventral limbs: BURTON, HOLDER & JESANI 94, 29
- retinoic acid binding protein in chick limb bud: MADEN & SUMMERBELL 97, 239

**Penis**

- development of skeletal tissues in rat: MURAKAMI & MIZUNO 92, 133

**Periodic albino**

- mutant of *Xenopus laevis* - study of melanophores: FUKUZAWA & IDE 91, 65

**pH**

- regulation of antigen expression in monolayers of *Dictyostelium*: DOMINOV & TOWN 96, 131

**Phenotypic changes**

effects of retinol on embryonal carcinoma cells: SHERMAN, EGLITS & THOMAS 93, 179

**Phenotypic linkage**

of musculoskeletal characters in mouse mandibular arch: KAY 98, 123

**Phenotypic regulation**

in monolayer cultures of *Dictyostelium*: DOMINOV & TOWN 96, 131

**Phenotypic rescue**

probing gene activity in *Drosophila* embryos: JÄCKLE, SEIFERT, PREISS & ROSENBERG 97 Supplement, 157

**Phosphate**

response of chick embryos to  $1,25(\text{OH})_2\text{D}_3$ : NARBAITZ & SOLEIMANI RAD 97, 87

**Phosphorylation**

in axolotl oocytes during progesterone-induced maturation: GAUTIER & TENCER 92, 103

**Pig****embryo**

changes in composition of zona pellucida: BROWN & CHENG 92, 183

**foetal testis**

histochemical and ultrastructural observations: VAN VORSTENBOSCH, VAN ROSSUM-KOK, COLENBRANDER & WENSING 95, 261

**Pigmentary system**

analysis of the axanthic phenotype of axolotl: FROST, EPP & ROBINSON 95, 117  
in axolotl - analysis of albino phenotype: FROST, EPP & ROBINSON 92, 255

**Pigmentation**

gene activity at albino locus in *Cattanach's* insertion: DEOL, TRUSLOVE & McLAREN 96, 295

of periodic albino mutant of *Xenopus laevis*: FUKUZAWA & IDE 91, 65

**Pigment cells**

*in vitro* assay for migration through somites: GUILLORY & BRONNER-FRASER 98, 85

pattern formation in *Taricha*: TUCKER & ERICKSON 97, 141

role of glycosaminoglycans in anuran pigment cell migration: TUCKER 92, 145

**Pituitary**

adrenocorticotropes originate from neural ridge tissue in *Xenopus*: EAGLESON, JENKS & VAN OVERBEEKE 95, 1

**Plasma membrane**

interactions during polar body formation in mouse oocyte: MARO, JOHNSON, WEBB & FLACH 92, 11

of mouse oocyte - chromosome-mediated differentiation: VAN BLERKOM & BELL 93, 213

**Platelet****yolk**

organization of *Xenopus* egg proteins: SMITH, NEFF & MALACINSKI 97 Supplement, 45

**Pleurodeles waltl**

effects of retinoids on limb regeneration: LHEUREUX, THOMS & CAREY 92, 165

**Polar body**

formation in mouse oocyte: MARO, JOHNSON, WEBB & FLACH 92, 11

**Polar coordinate model**

and handedness of supernumerary limbs after wingbud rotation: JAVOIS & ITEN 91, 135  
for pattern formation in insect thoracic segment: FRENCH & ROWLANDS 98, 137

**Polarity**

anteroposterior pattern in *Drosophila* embryo: FROHNHÖFER, LEHMANN & NÜSSLEIN-VOLHARD 97 Supplement, 169  
developmental strategies in early embryogenesis of *Caenorhabditis*: SCHIERENBERG 97 Supplement, 31  
in *Xenopus* egg: SMITH, NEFF & MALACINSKI 97 Supplement, 45  
role for cytoplasmic determinants in early mouse development: JOHNSON, CHISHOLM, FLEMING & HOULISTON 97 Supplement, 97

**Polarization**

cell-matrix interactions in cultured rabbit dental cells: LESOT, SMITH, MEYER, STAUBLI & RUCH 96, 195  
timing of compaction in mouse: LEVY, JOHNSON, GOODALL & MARO 95, 213

**Polyadenylation**

stability and movement of mRNA in *Xenopus* oocytes and embryos: COLMAN & DRUMMOND 97 Supplement, 197

**Poly (A) RNA**

in *Xenopus* oocytes and embryos: COLMAN & DRUMMOND 97 Supplement, 197

**Polytrophic**

ovarioles - microfilament patterns in nurse cells: GUTZEIT & HUEBNER 93, 291

**Porcine****embryo**

changes in composition of zona pellucida: BROWN & CHENG 92, 183



**Positional signalling**

- by Hensen's node grafted to chick limb bud: HORNBRUCH & WOLPERT 94, 257

**Postimplantation**

- mouse
  - chimaerism of primordial cells after primitive streak cell grafting: COPP, ROBERTS & POLANI 95, 95

**Prelocalization**

- developmental strategies in early embryogenesis of *Caenorhabditis*: SCHIERENBERG 97 Supplement, 31

**Presomitic mesoderm**

- pattern of somites in mouse: TAM 92, 269

**Primitive streak**

- contribution to avian somites: OOI, SANDERS & BELLAIRS 92, 193

**Primordial germ cells**

- in embryos from inverted eggs of *Xenopus*: CLEINE 94, 83
- migration from epiblast to germinal crescent in chick: GINSBURG & EYAL-GILADI 95, 53

**Primordial pool size**

- of mouse liver using X-linked enzyme in adult female mouse: WAREHAM & WILLIAMS 95, 239

**Progesterone**

- induced maturation - changes in patterns of protein synthesis: GAUTIER & TENCER 92, 103

**Projection site**

- of retina around *Rana* optic nerve: FRASER & HUNT 94, 149

**Proliferation**

- of rat visceral yolk sac: SOBIS, GOEBELS & VANDEPUTTE 97, 169

**Protein**

- apolipoprotein and serum - distribution in human embryo: HOPKINS, SHARPE, BARALLE & GRAHAM 97, 177
- ascidian
  - role of maternal mRNA: JEFFERY, BATES, BEACH & TOMLINSON 97 Supplement, 1
- binding retinoic acid in chick limb bud: MADEN & SUMMERBELL 97, 239
- from dentin - influence on cell-matrix interactions: LESOT, SMITH, MEYER, STAUBLI & RUCH 96, 195
- intermediate filament in CNS of *Xenopus*: GODSAVE, ANDERTON & WYLIE 97, 201
- requirements for germinal vesicle breakdown in ovine oocytes: MOOR & CROSBY 94, 207

**sex-specific of chick embryo gonads:**

- SAMSEL, LORBER, PETIT & WENIGER 94, 221

**synthesis and mRNA along animal-vegetal axis in *Xenopus*:** SMITH 95, 15**synthesis - timing of compaction in mouse:**

- LEVY, JOHNSON, GOODALL & MARO 95, 213

***Xenopus* egg**

- organization of yolk/nonyolk proteins: SMITH, NEFF & MALACINSKI 97 Supplement, 45

**Protein synthesis**

- in axolotl oocytes during progesterone-induced maturation: GAUTIER & TENCER 92, 103
- in whole rat embryo cultures: WILLIAMS, PRISCOTT, OLIVER & YEOH 92, 33

**Pteridines**

- in pigmentary system of albino axolotls: FROST, EPP & ROBINSON 92, 255

**Puromycin**

- timing of compaction in mouse: LEVY, JOHNSON, GOODALL & MARO 95, 213

**Quadruple aggregates**

- size regulation in mouse embryos: RANDS 94, 139

**Quail (See also *Coturnix coturnix japonica*)**

- blastoderm
    - migration of primordial germ cells to germinal crescent: GINSBURG & EYAL-GILADI 95, 53
  - cellular origin of fibronectin in developing tooth: HURMERINTA, KUUSELA & THESLEFF 95, 73
  - embryo
    - differentiation *in vitro*: MACKAY & SMITH 97, 189
  - oviduct
    - computer simulation of cellular pattern changes: HONDA, YAMANAKA & EGUCHI 98, 1
- Quail-chick**
- marker system - gonadal development in chick embryo: RODEMER, IHMER & WARTENBERG 98, 269

**Rabbit**

- dental cells
    - cell-matrix interactions: LESOT, SMITH, MEYER, STAUBLI & RUCH 96, 195
  - embryo
    - effects of electric field on fusion rates: OZIL & MODLINSKI 96, 211
- Rana pipiens***
- shifting connections in retinotectal system: FRASER & HUNT 94, 149

**Rat****adult**

- whisker growth induced by cultured vibrissa dermal papilla cells: HORNE, JAHODA & OLIVER 97, 111

**chimaera**

- cranial neural crest cell migration: TAN & MORRIS-KAY 98, 21

**embryo**

- albumin and transferrin synthesis: WILLIAMS, PRISCOTT, OLIVER & YEOH 92, 33
- calcium and neurulation - effect of cytoskeletal inhibitors: SMEDLEY & STANISSTREET 93, 167
- embryonic ectoderm as renal isograft: ŠVAJGER, LEVAK-ŠVAJGER & ŠKREB 94, 1
- hyaluronidase increases cell cycle time: MORRIS-KAY, TUCKETT & SOLURSH 98, 59

**mammary gland**

- regeneration *in vivo*: ORMEROD & RUDLAND 96, 229

**muscle**

- effects of temporary ischaemia: DIWAN & MILBURN 92, 223

**postnatal**

- maturation of efferent tubules: FRANCAVILLA AND OTHERS 96, 51

**regeneration of skeletal muscle after autotransplantation: GULATI 92, 1****vibrissa follicle**

- induction in mouse skin by rat vibrissa dermal papilla: PISANSARAKIT & MOORE 94, 113

**yolk sac**

- histochemical and autoradiographic study: SOBIS, GOEBELS & VANDEPUTTE 97, 169

***rds* gene**

- expression in chimaeric mouse retina: SANYAL, DEES & ZEILMAKER 98, 111

**Reconstruction**

- of echinoderm larvae from dissociated cells: DAN-SOHWAWA, YAMANAKA & WATANABE 94, 47
- YAMANAKA, TANAKA-OHMURA & DAN-SOHWAWA 94, 61

**Reconstructions**

- of sections of teleost regenerating spinal cord: ANDERSON, CHOY & WAXMAN 96, 1

**Regeneration**

- and limb development in the axolotl - effect of vitamin A: SCADDING & MADEN 91, 19

- and limb development in *Xenopus laevis* - effect of vitamin A: SCADDING & MADEN 91, 35

**following rotation of chick wing bud:**

- JAVOIS & ITEN 91, 135

**in anterior-posterior axis of *Tenebrio***

- thorax: FRENCH & ROWLANDS 98, 137

**in axolotl from half lower arms:**

- WIGMORE 95, 247

**in hydra - bud induction by 5-azacytidine:**

- DE PETROCELLIS, MAHARAJAN, DE PETROCELLIS & MINEI 93, 105

**in *Xenopus* - effect of local application of vitamin A: SCADDING & MADEN 91, 55****of double dorsal and double ventral axolotl limbs: BURTON, HOLDER & JESANI 94, 29****of grafted leg in *Tenebrio*: FRENCH 91, 227****of limbs in amphibia - effects of two**

- retinoids: LHEUREUX, THOMS & CAREY 92, 165

**of rat mammary glands *in vivo*: ORMEROD & RUDLAND 96, 229****of rat skeletal muscle after**

- reautotransplantation of muscle: GULATI 92, 1

**of retinotectal axons of goldfish:**

- STUERMER 93, 1

**of teleost spinal cord: ANDERSON, CHOY & WAXMAN 96, 1****pattern discontinuity, polarity and**

- intercalation in axolotl: MUNEOKA, HOLLER-DINSMORE & BRYANT 93, 51

**visual projection on *Xenopus* optic tectum**

- after nerve section: WILLSHAW & GAZE 94, 121

**Regulation****multilevel - DNA-ligase activity in axolotl**

- early development: SIGNORET & DAVID 97 Supplement, 85

**of development in fully grown mouse**

- oocyte: VAN BLERKOM & BELL 93, 213

**of  $\alpha$ -foetoprotein expression in mice:**

- HAMMER AND OTHERS 97 Supplement, 257

**of size in mouse embryo - half embryos:**

- RANDS 98, 209

**of size in mouse quadruple aggregates:**

- RANDS 94, 139

**Renal insufficiency (*r*)****mutant in axolotl - retina and lens**

- development: CUNY & MALACINSKI 96, 151

**Renal isograft**

- use of rat embryonic ectoderm: ŠVAJGER, LEVAK-ŠVAJGER & ŠKREB 94, 1

**Reorientation**

- of mouse palate - effect of reducing ATP levels: BULLEIT & ZIMMERMAN 93, 73

**Retina**

- and lens development in eyeless axolotl mutants: CUNY & MALACINSKI 96, 151
- mouse
  - rds* gene expression in chimaeras: SANYAL, DEES & ZEILMAKER 98, 111

*Xenopus laevis*

- ocular migration and maturation of retinotectal system: GRANT & KEATING 92, 43

**Retinal pigment epithelium**

- non-random arrangement of clone sizes in mouse chimaeras: SCHMIDT, WILKINSON & PONDER 91, 197

**Retinoic acid**

- binding protein in chick limb bud: MADEN & SUMMERBELL 97, 239
- local application - limb development and regeneration in *Xenopus*: SCADDING & MADEN 91, 55
- treatment and mouse chimaera formation: WATERS & ROSSANT 98, 99

**Retinoic palmitate**

- effect on musculoskeletal characters of mouse mandibular arch: KAY 98, 123

**Retinoids**

- effects on limb development and regeneration in the axolotl: SCADDING & MADEN 91, 19
- effects on limb development and regeneration in *Xenopus laevis*: SCADDING & MADEN 91, 35
- effects on limb regeneration in *Pleurodeles* and *Triturus*: LHEUREUX, THOMS & CAREY 92, 165
- retinoic acid-binding protein in chick limb bud: MADEN & SUMMERBELL 97, 239

**Retinol**

- effects on phenotypic properties of embryonal carcinoma cells: SHERMAN, EGLITS & THOMAS 93, 179

**Retinotectal projection**

- from visually deprived *Xenopus laevis*: KEATING, GRANT, DAWES & NANCHAHAL 91, 101

**Retinotectal system**

- shifting connections in *Rana pipiens*: FRASER & HUNT 94, 149

**Retroviral vectors**

- expression in murine stem cells and transgenic mice: STEWART AND OTHERS 97 Supplement, 263

**Ribonucleic acid (RNA)**

- anti-sense - injection in frog eggs: MELTON & REBAGLIATI 97 Supplement, 211
- maternal messenger
  - as determinant of ascidian tissue-specific proteins: JEFFERY, BATES, BEACH & TOMLINSON 97 Supplement, 1
- messenger
  - along animal-vegetal axis during early *Xenopus* development: SMITH 95, 15
  - localization in frog eggs: MELTON & REBAGLIATI 97 Supplement, 211
  - localization of specific sequences in *Xenopus* embryos: DWORKIN-RASTL, KELLEY & DWORKIN 91, 153
  - stability and movement in *Xenopus* oocytes and embryos: COLMAN & DRUMMOND 97 Supplement, 197
  - probing gene activity in *Drosophila* embryos: JÄCKLE, SEIFERT, PREISS & ROSENBERG 97 Supplement, 157

**RNA polymerases**

- effect of microinjection of antibodies into amphibian oocytes: SCHEER 97 Supplement, 223

**Robertsonian chromosome**

- in mouse embryos: DEBROT & EPSTEIN 91, 169

**Robertsonian translocation**

- parental origin effects in mice: CATTANACH 97 Supplement, 137

**Rotation**

- of grafted leg in *Tenebrio*: FRENCH 91, 227

**Ruthenium red**

- used to study branching morphogenesis in avian lung: GALLAGHER 94, 189

**Scanning electron microscopy**

- of ciliary band formation in doliolaria larva of *Florometra*: LACALLI & WEST 96, 303
- of mouse embryonic submandibular glands: NAKANISHI, SUGIURA, KISHI & HAYAKAWA 96, 65
- study of eyelid development in mutant - lidgap-Miller foetal mice: HARRIS & JURILOFF 91, 1

**Schistocerca gregaria**

- embryo
  - disruption of segmentation by heat shock: MEE & FRENCH 96, 245, 267

**sdh**

- cell marker to trace cell lineage of *Drosophila* internal organs: LAWRENCE & JOHNSTON 91, 251

**Secondary cartilage**

- growth in clavicle of embryonic chick: HALL 93, 133

**Secondary palate**

cell distribution during closure in mouse:  
BRINKLEY & BOOKSTEIN 96, 111

**Segmentation**

in chick embryo - interaction between  
neurite and somite cells: STERN, SISODIYA  
& KEYNES 91, 209

in *Schistocerca* - disruption by heat shock:  
MEE & FRENCH 96, 245, 267

probing gene activity in *Drosophila*  
embryos: JÄCKLE, SEIFERT, PREISS &  
ROSENBERG 97 Supplement, 157

**Selforganization**

of ependyma in regenerating teleost spinal  
cord: ANDERSON, CHOY & WAXMAN 96, 1

**Sensory nerve**

routes in chick wing buds deprived of  
motor innervation: SWANSON &  
LEWIS 95, 37

**Serial sections**

of teleost regenerating spinal cord:  
ANDERSON, CHOY & WAXMAN 96, 1

**Serum proteins**

distribution in human embryos: HOPKINS,  
SHARPE, BARALLE & GRAHAM 97, 177

**Sex-specific**

proteins of chick embryo gonads: SAMSEL,  
LORBER, PETTI & WENIGER 94, 221

**Shape**

clonal theory and vertebral shape:  
O'HIGGINS, JOHNSON & MCANDREW  
96, 171

**Shell-less culture**

of chick embryos: ONO & TUAN 92, 207

**Size**

regulation in mouse embryo:  
RANDS 98, 209

regulation in mouse quadruple aggregates:  
RANDS 94, 139

**Skeletal muscle**

regeneration after reautotransplantation of  
regenerated muscle: GULATI 92, 1

**Skin**

axolotl  
regeneration after replacing limb skin  
with head skin: WIGMORE & HOLDER  
98, 237

intermediate filaments in *Xenopus*:  
GODSAVE, ANDERTON & WYLIE 97, 201

**Skull**

morphogenesis in chick: GOLDSTEIN,  
JANKIEWICZ & DESMOND 93, 29

**Small eyes (Sey)**

mutation in mouse affecting lens and nasal  
placodes: HOGAN AND OTHERS 97, 95

**Somite**

contribution of primitive streak to avian  
somites: OOI, SANDERS & BELLAIRS  
92, 193

formation in *Xenopus* - influence of  
myoblasts and notochord: MCCAIG  
93, 121

interaction with neurite cells during  
development of chick embryo: STERN,  
SISODIYA & KEYNES 91, 209

*in vitro* assay of neural crest cell migration:  
GUILLORY & BRONNER-FRASER 98, 85

**Somitomere**

pattern of in mouse presomitic mesoderm:  
TAM 92, 269

**Soybean agglutinin**

used to demonstrate basal laminar thinning  
in chick lung: GALLAGHER 94, 173

**Spatiotemporal pattern**

in retinotectal axons of goldfish:  
STUERMER 93, 1

**Spectrin**

potential role during neurulation: SADLER,  
BURRIDGE & YONKER 94, 73

**Spermatogenesis**

isolation of *t*-complex polypeptide-1 gene  
in mouse: WILLISON AND OTHERS  
97 Supplement, 151

**Spinal cord**

regeneration  
selforganization in teleosts: ANDERSON,  
CHOY & WAXMAN 96, 1

**Spinal neurocoel**

of chick - intrinsic and extrinsic factors in  
occlusion: DESMOND & SCHOENWOLF  
97, 25

**Spore**

antigen expression in *Dictyostelium*:  
DOMINOV & TOWN 96, 131

**Stability**

and movement of mRNA in *Xenopus*  
oocytes and embryos: COLMAN &  
DRUMMOND 97 Supplement, 197

**Stalk**

antigen expression in *Dictyostelium*:  
DOMINOV & TOWN 96, 131

**Starfish**

reconstruction of bipinnaria from  
dissociated embryonic cells: DAN-  
SOHKAWA, YAMANAKA & WATANABE  
94, 47  
YAMANAKA, TANAKA-OHMURA & DAN-  
SOHKAWA 94, 61

**Stem cells**

mouse  
expression of retroviral vectors: STEWART  
AND OTHERS 97 Supplement, 263

**Steroidogenesis**

effect on maturation of ovine oocytes:  
OSBORN, MOOR & CROSBY 98, 187

**Steroid receptors**

relation to retinoic acid binding in chick  
limb bud: MADEN & SUMMERBELL 97, 239

**Stripes**

visual projection on *Xenopus* optic tectum  
after nerve section: WILLSHAW &  
GAZE 94, 121

**Structure**

of segmental abnormalities in locust  
embryo: MEE & FRENCH 96, 267

**Styela plicata**

embryo  
maternal mRNA as determinant of  
tissue-specific proteins: JEFFERY, BATES,  
BEACH & TOMLINSON 97 Supplement, 1

**Submandibular glands**

of mouse - SEM observation during initial  
branching: NAKANISHI, SUGIURA, KISHI &  
HAYAKAWA 96, 65

**Sulphated materials**

abnormal accumulation in lens tissue of  
mutant mice: WEBSTER, ZWAAN &  
COOPER 92, 85

**Superficial cells**

role in gastrulation in *Ambystoma*:  
LUNDMARK 97, 47

**Supernumerary legs**

in cockroach: TRUBY 92, 115  
in *Tenebrio* after grafting prothoracic leg to  
metathorax: FRENCH 91, 227

**Supernumerary structures**

following rotation of chick wing bud:  
JAVOIS & ITEN 91, 135

**Symmetry**

developmental strategies in early  
embryogenesis of *Caenorhabditis*:  
SCHIERENBERG 97 Supplement, 31

**Synapse**

in shifting connections in *Rana* retinotectal  
system: FRASER & HUNT 94, 149

**Tannic acid**

used to study branching morphogenesis in  
avian lung: GALLAGHER 94, 189

**Taricha torosa**

pigment cell pattern formation: TUCKER &  
ERICKSON 97, 141

**Teleost**

regeneration of spinal cord: ANDERSON,  
CHOY & WAXMAN 96, 1

**Telotrophic**

ovarioles - microfilament patterns in nurse  
cells: GUTZET & HUEBNER 93, 291

**Tenebrio spp.**

interaction between leg and surrounding  
thorax: FRENCH 91, 227  
regeneration in anterior-posterior axis:  
FRENCH & ROWLANDS 98, 137

**Teratocarcinoma**

expression of insulin-like growth factors in  
mouse: HEATH & SHI 95, 193

**Testicular fluid**

transport in the rat: FRANCAVILLA AND  
OTHERS 96, 51

**Testis**

mouse  
isolation of *t*-complex polypeptide-1  
gene: WILLISON AND OTHERS  
97 Supplement, 151

**pig**

histochemical and ultrastructural  
observations: VAN VORSTENBOSCH, VAN  
ROSSUM-KOK, COLENBRANDER &  
WENSING 95, 261

postnatal maturation of efferent tubules in  
the rat: FRANCAVILLA AND OTHERS 96, 51

**Tetraploid**

rabbit embryos from electric-field-induced  
fusion: OZIL & MODLINSKI 96, 211

**Tetrasomy**

in mouse embryo: DEBROT & EPSTEIN  
91, 169

***t*-haplotypes**

molecular analysis of mouse  
spermatogenesis: WILLISON AND  
OTHERS 97 Supplement, 151

**Thin-layer counter current distribution (TLCCD)**

study of chick limb mesenchymal  
diversification: COTTRILL, SHARPE &  
WOLPERT 94, 267

**Thorax**

interaction with leg in *Tenebrio*: FRENCH  
91, 227

***T<sup>h</sup>* mutation**

nucleocytoplasmic interactions in mouse  
embryo: McGRATH & SOLTER  
97 Supplement, 277

**Tissue**

interaction in mouse otic capsule  
formation: MCPHEE & VAN DE  
WATER 97, 1

**Tissue culture**

cell-matrix interactions in cultured rabbit  
dental cells: LESOT, SMITH, MEYER,  
STAUBLI & RUCH 96, 195

**Transcription**

effect of microinjection of antibodies into  
amphibian oocytes: SCHEER  
97 Supplement, 223

**Transferrin**

- and albumin synthesis in whole rat embryo cultures: WILLIAMS, PRISCOTT, OLIVER & YEOH 92, 33
- requirement of cultured chick embryo mesoderm cells: SANDERS 95, 81

**Transgenic mice**

- expression of retroviral vectors: STEWART AND OTHERS 97 Supplement, 263
- regulation of  $\alpha$ -foetoprotein minigene expression: HAMMER AND OTHERS 97 Supplement, 257

**Translation**

- protein changes in ovine oocytes: MOOR & CROSBY 94, 207

**Translocations**

- X-linked gene separated from inactivation centre: LYON AND OTHERS 97, 75

**Transplantation**

- nucleocytoplasmic interactions in mouse embryo: McGRATH & SOLTER 97 Supplement, 277
- of anterior determinants in *Chironomus* eggs: KALTHOFF & ELBETIEHA 97 Supplement, 181

**Transport**

- of calcium in shell-less chick embryos: TUAN & ONO 97, 63

**Tritomy**

- in mouse embryo: DEBROT & EPSTEIN 91, 169

***Triturus vulgaris***

- effects of retinoids on limb regeneration: LHEUREUX, THOMS & CAREY 92, 165

**d-Tubocurarine**

- effect on differentiation of fibre types in avian muscle: SOHAL & SICKLES 96, 79

**Two-dimensional gel electrophoresis**

- of cytosolic proteins of chick embryo: SAMSEL, LORBER, PETTIT & WENIGER 94, 221
- protein synthesis and mRNA levels along *Xenopus* axis: SMITH 95, 15

**Ultimobranchial bodies**

- role in response of chick embryos to  $1,25(\text{OH})_2\text{D}_3$ : NARBAITZ & SOLEIMANI RAD 97, 87

**Ultrastructural**

- and histochemical observations on early foetal pig testis: VAN VORSTENBOSCH, VAN ROSSUM-KOK, COLENBRANDER & WENSING 95, 261

**Urodele**

- pathway selection by developing peripheral axons in axolotl: FREEMAN & DAVEY 91, 117

**Urogenital complex**

- differentiation *in vitro* of mouse gonads: MACKAY & SMITH 97, 189

**Uvomorulin**

- used to study role of cell adhesion in blastomere polarization: JOHNSON, MARO & TAKEICHI 93, 239

**Vegetal pole**

- developmental restrictions in *Xenopus* embryos: HEASMAN, SNAPE, SMITH & WYLIE 97 Supplement, 65

**Vertebra**

- shape
- clonal theory - reinvestigation using Fourier analysis: O'HIGGINS, JOHNSON & MCANDREW 96, 171

**Vibrissa**

- whisker growth induced in rat by cultured dermal papilla cells: HORNE, JAHODA & OLIVER 97, 111

**Vibrissa follicle**

- induction of hair follicles in mouse skin: PISANSARAKIT & MOORE 94, 113

**Visceral**

- yolk sac of rat: SOBIS, GOEBELS & VANDEPUTTE 97, 169

**Visual deprivation**

- and maturation of retinotectal projection in *Xenopus laevis*: KEATING, GRANT, DAWES & NANCHAHAL 91, 101

**Visual projection**

- on *Xenopus* optic tectum after unilateral nerve section: WILLSHAW & GAZE 94, 121

**Visual system**

- shifting connections in *Rana* retinotectal system: FRASER & HUNT 94, 149

**Vitamin A**

- calcium mobilization in chick embryo: TUAN & ONO 97, 63
- effects on limb development and regeneration in the axolotl: SCADDING & MADEN 91, 19
- effects on limb development and regeneration in *Xenopus laevis*: SCADDING & MADEN 91, 35
- local application - limb development and regeneration in *Xenopus*: SCADDING & MADEN 91, 55

**Vitamin D**

- calcium mobilization in chick embryo: TUAN & ONO 97, 63
- response of chick embryos to  $1,25(\text{OH})_2\text{D}_3$ : NARBAITZ & SOLEIMANI RAD 97, 87



**Wheat germ agglutinin**

- used to demonstrate basal laminar thinning in chick lung: GALLAGHER 94, 173
- used to study neural crest migration in rat chimaeras: TAN & MORRISS-KAY 98, 21

**Whisker**

- growth induced in rat by cultured vibrissa dermal papilla cells: HORNE, JAHODA & OLIVER 97, 111

**Whole embryo culture**

- cinemicrographic study of cell movement in mouse: NAKATSUJI, SNOW & WYLIE 96, 99

**Xanthophore**

- in pigmentary system of albino axolotls: FROST, EPP & ROBINSON 92, 255

**X-chromosome**

- X-linked gene separated from inactivation centre: LYON AND OTHERS 97, 75

**Xenopus laevis**

- early development
  - protein synthesis and mRNA levels along animal-vegetal axis: SMITH 95, 15

**egg**

- muscle gene activation by induction: GURDON & FAIRMAN 97 Supplement, 75

**eggs**

- electric fields, contact guidance and nerve growth: MCCAIG 94, 245
- germ cells in embryos from inverted eggs: CLEINE 94, 83

**embryo**

- DNA injection: TREDELENBURG AND OTHERS 97 Supplement, 243
- histone H4 mRNA levels in absence of cell adhesion: ATSUCHI, TASHIRO, YAMANA & SHIOKAWA 98, 175
- intermediate filaments in CNS, skin and notochord: GODSAVE, ANDERTON & WYLIE 97, 201
- localization of specific mRNA sequences by *in situ* hybridization: DWORKIN-RASTL, KELLEY & DWORKIN 91, 153
- nature of commitment: HEASMAN, SNAPE, SMITH & WYLIE 97 Supplement, 65
- organization of oogenetically derived proteins: SMITH, NEFF & MALACINSKI 97 Supplement, 45
- pattern formation in 8-cell composites: KAGEURA & YAMANA 91, 79
- influence of notochord and myoblasts on orientation: MCCAIG 93, 121
- ocular migration and maturation of retinotectal system: GRANT & KEATING 92, 43

**oocyte**

- stability and movement of mRNA:

COLMAN & DRUMMOND

97 Supplement, 197

**periodic albino**

- study of melanophores: FUKUZAWA & IDE 91, 65

**preformed pathways in neural tube: SCOTT & BUNT 91, 181****retinotectal projection**

- from visually deprived animals: KEATING, GRANT, DAWES & NANCHAHAL 91, 101

**role of glycosaminoglycans in pigment cell migration: TUCKER 92, 145****tadpoles**

- effect of local application of vitamin A on limb development: SCADDING & MADEN 91, 55

**visual projection**

- on optic tectum following regeneration after nerve section: WILLISAW & GAZE 94, 121

**X-inactivation**

- gene activity at albino locus in Cattanach's insertion: DEOL, TRUSLOVE & McLAREN 96, 295
- regulation of  $\alpha$ -foetoprotein minigene expression in mice: HAMMER AND OTHERS 97 Supplement, 257

**X-linkage**

- in adult female mouse: WAREHAM & WILLIAMS 95, 239

**Yolk**

- organization of *Xenopus* egg proteins: SMITH, NEFF & MALACINSKI 97 Supplement, 45

**Yolk sac(k)**

- calcium mobilization in chick embryo: TUAN & ONO 97, 63
- distribution of apolipoprotein gene transcripts in human embryo: HOPKINS, SHARPE, BARALLE & GRAHAM 97, 177

**Zona pellucida**

- of pig - changes in composition during development: BROWN & CHENG 92, 183

**Zone of polarizing activity**

- in chick limb bud: BELL 93, 257

**Zygote****Caenorhabditis**

- asymmetric movements of cytoplasm: STROME 97 Supplement, 15